

aagttattgt cgtttgaatt tgctcagagc ttctattgtc aattacgagc gtctcgatat 120
 attacgggac tcaatoggac atccgagtaa aaagttattg tegtctgaat ttgtctaaag 180
 cttctgtttt caattaagag cgtcttgata tattacgtga ctcaatcgga catccgagtc 240
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<210> 19012
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19012

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 ctccagcgtg gtaatagctaa caataaagcc atgagctcct tttcatagc agattctgat 120
 aaatcgccct ctgatcaagc tatgctaact aaagctatag gctgcctctg ctgcatcaaa 180
 acagcaccaa tttctctccc cgcgcgcatca cattccactt caaacagaat agagaaatca 240
 gyttaacacta gtaactggagc tatagtcatg atctgcttca gatgattgan agcctccaga 300
 gcatcttttc cccaaataaa gttattcttc ttagtcatctt cagtcaaagg gttagcaatt 360
 gtaccataat cctttgataa tttctgtata accc 394

<210> 19013
 <211> 323
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19013

ccaaaagcac cttctctcaa acattcgttc gtaggaacttg ctataacgct aacattcttg 60
 ataaaagcgc gattacatga tgcaagacca aggaaagatc tcaagctacg aactggtaga 120
 aggtcggggc aagtcttgat agcatgcact ttggtttgat caacgggatac tccatcttta 180
 gacacacat atccaagnac accacactt caaccaagaa agcacactnt tccctcttgc 240
 catagagntt tggggtcttt aggtctctaa atatttggtt canatgagtg aaatgcccc 300
 ctatagatnt gcatacacc aat 323

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<E10>      19015
<E11>      205
<E12>      DNA
<E13>      Glycine max
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<400> 19015

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<210>      19016
<211>      401
<212>      DNA
<213>      Glycine max
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<223> unsure at all n locations

<400> 19016

111

gtttatttta tttttgtgtt ntagatagta ctttgaacag taaaaaatat tctaaacaac 360
gaaataaaga ctatttaaaa cactttacag ggacaaaaat g 401

<331> unsure at all n locations
<400> 19017

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gttgtatgag caccatttg tccaccaccc ctatgggtac cctgaaaaaa gaaaagaaat 120
aaattggaat agaggttagg attgatttta taagagtgc tcttccccc naagatatgt 180
gtctctgttt ccactttgct agtttctctc cgtacttata gattattgag tcccacaaat 240
gacacctcct tggatttgc ccagtgggca tccccaagta aacaaaagg atggacagca 300
ggtacaatt caagtaattg gctgcattnt gctccacga ctccgacata ccaatngatc 360
cgaatctgct ttttgcanna attattgaga cctgacacca attcaaagg cctcaagatg 420
gctttgatca cctgatgtt ctncattgat 450

<310> 19018
<311> 411
<312> DNA
<313> Glycine max

<323> unsure at all n locations
<400> 19018

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ccttgtgata aaggtagtgt tgccatgttt tccacagcca tattaatgca tacaactcct 120
tatcataagt agaatagttc aaggtaggac cacttaactt ttcactacca taagcaatcg 180
gatggccttc ttgcacaaac acagcctcag tcccccacatt cgaagcaca cactcaatnt 240
caaaagattg ttgacagtha gacaacgcaa gtatggaggc attagatagc tttttcttaa 300
gaacattgaa agcatctctc tgattctctc cccattcgaa accaacatta tgetagagca 360
cgtcatgac aggtctctcc aatctctcaa aatctctcac atatcatca 411

<210> 19019
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

gagataggga gaattatatt gaaagaaaga gaaaggtggg tggataggaa gattagagag 180
 gaagtttcat tggaggaaaa gaaagaaaga gaaaggtggg ggtgatgcaa tctaacccnc 240
 gaagggcatt ggtatagaaga ctccaagaag attgggacaa agatgcaaga gaatgcccata 300
 ngtttctcat gagtcttang gcagatttcc ggcccatggg ctaagtatga gcccaattat 360
 attgtatat attagactac gatgtcatta tatttgatcc ttgtatttag ggctccatat 420
 tatagatagg gtaacctaga aatat 445

<210> 19020
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19020

tgaataacgg aagctcttga gaatttccaa tggtcataac ttggcacact cgggtccgat 60
 tcaagcttat aatatatcga agacgcctac aattaaacat cggaagctct cgagaaatcc 120
 gaatgggtcat aattttccaa acggatgtcc gaatccggcg cataatatgt ctagacgctc 180
 gaaatcgaac aacuaaaaact ctccagacat tcatatggtc ataacttttc ctccgatgtc 240
 cgattccagac gtaacacata tagagacgct cgtanatgca catcggaagc tcttgtgaaa 300
 ttacatggtc ataactttta caccgatgtc cgattccaggc gca 343

<210> 19021
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19021

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acagggggcca aagatgcatg ggagatcctg aaaaccactc atgaaggaac ctccanagtg	120
aagatgcca gattgcaact attggtaca aaattcgaaa atctgaagat gaaggaggaa	180
gctgtttttttt gctttttttttt gctttttttttt gctttttttttt gctttttttttt	240
gctttttttttt gctttttttttt gctttttttttt gctttttttttt gctttttttttt	300
gctttttttttt gctttttttttt gctttttttttt gctttttttttt gctttttttttt	360
gctttttttttt gctttttttttt gctttttttttt gctttttttttt gctttttttttt	420

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<210>      19023
<211>      426
<212>      DNA
<213>      Glycine max

<23>      unsure at all n locations
<400>      19023

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ccactcggac ttccaaaata gcagattctg aatatgataa aaagaaaagat ccacacatta    120
atattttaagt tttatagtta ttccaaacaa ctgggggaaat ttagattcat catanataga    180
ttagtagget aattttgcac atctgacctt gcagagtata taacagaatt tgggcgcgatg    240
tacttataca tcaaaaaaag ctacaaagaa actaaagata tccaaaacaa catcacctua    300

```

taaagggtatg tgattgactc aacggaagat cttctccaat ggcaacaagg atntgacatt 360
 caacaagatc ctgaccaaca atcatttttg aacatggatg atcaacotgt attaacatcc 420
 cccatg 480

<210> Glycine max

<211> locate at all n locations

<400> 19024

tggcccaatg attgataact gtacaggcat gaattttatg taatgtccaa atgcccatac 60
 tatgggactt caggytaaga agtgaacgat gaagaacaca gtagtcttga tgaaaactcc 120
 aacaagggcc ccccaacaaa ggtttttggtg tatcttccaa tcattccaag gtttaagcgt 180
 ccttttgcta acgaggacga cgcanaaac cttacatggc atgcacatgg aaggatttct 240
 gatggaatgg tccgtcctcc ggctgattgc tccagtgga agaagattga tggtttgtat 300
 coggatttcc ggaatgagcc aagaaatctt agacttggac tagccagtga tgggaattgaa 360
 tcatatggca ccttaagcac tcaacatagt tcat 394

<210> 19025

<211> 393

<212> DNA

<213> Glycine max

<400> 19025

agcttttggt aatatattcg ttctgaactt atcttggaat taattgttcc ttaaaaagga 60
 agtgtacaca aataacattt taagaaaaaa aaacttttaa aaaacaactt ttaatgaaga 120
 aaagtaaaaa taaaagaaaa agaaactgta gcaaaaagtt aatatttnga tcttttactt 180
 ctatttcttt ttttccaat tataaaaaatt gaaggacaca caattttaaa aattcaactt 240
 aataagtaat ttctaactta aaagatattt ttattttcta tgtctatatt gttaaaaagt 300
 aatttagtta aatgcattca aaatatcttt tatattatta ttaaatotta aattgagata 360
 ttaattaaaa ctthtgactt cttataatta ttacttta 398

<210> 19026

<211> 297

<212> DNA
 <213> Glycine max

<400> 19026

ttttatccag tatatacaac agcttttaac gaaaggcagg aaatatcaatg cccccccaaa 60

ttttatccag tatatacaac agcttttaac gaaaggcagg aaatatcaatg cccccccaaa 240

ttttatccag tatatacaac agcttttaac gaaaggcagg aaatatcaatg cccccccaaa 297

<212> 19027
 <213> 414
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 19027

agcttttgat tccctcaaac aacaataact ttttactcgg atgtctgatt gacacctgta 60

atatatccag acgctcgaaa ttgaataccg aagctctgag caaattcaaa cgacaataag 120

ttttactttg tatgttcgat tgactctggg aatatatcga aacgctcgaa attgaagacc 180

gaagctctga gcaaattcaa acgacaataa ctttttactc ggatgtttga ttgagtcctg 240

taatatatcg agagctcgg acttgaatgc cgaagctctg cgcaattca aacgacaata 300

acttttttcc tgggatgtct gattgagtc cataatatat cgagacgctc ggaattgaat 360

gccttagctc tgagcaaatt caaatgacaa taaatnttta ctgggatgtc taag 414

<210> 19028
 <211> 430
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 19028

acacatagaa tactaagctt cggattcaag tccgagcgtc tggatatatt acgttgantt 60

tgtctgacat ccgagtaaaa aagttatgtt cgtttgaata tgcctcaggc ttccgtaate 120

aatttcgagc gtctcaatat attacgggac tcagtcagac atccgactaa aaatttattt 180

tgtttggaat ttgtcaaaag cgttcgcatt caagtcagag cgtctcgata tattacggga 240

ctcaatcaga catccganta aaaagttatt gtcatttgaa tttgtctata gctaacgcat 300
 taaagtcoga ggggtctgat atattatggg actcaatcag tcacccgagt aaaaaagcca 360
 ttctggtctg aatttctca tagcttcggc atcaaatcc cccctctctc atatatctac 420

<211> 19029
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19029

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 caattcagct acttcaatta cagctctctc ttgggaaacc ctgacctctg tggcccttat 120
 ttgggtgctt gcaaagatgg ggttgccaat ggcgcacacc aacctcatgt taaaggtctc 180
 tctctctctt taaagctgct acttgttggt gggttgctac tatgttccat tgcctttgct 240
 tgggctgcaa tattcaaggc ccggtcactg aagaaggcca gtggggctcg tgcattggaag 300
 ttagctgcgt tcaacgtttg gacttcactt gcgatgatgt tttgcattgc ttgaaggagg 360
 ataattattat 370

<210> 19030
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19030

tgcanaccan atgctcacca ctgctagacg aaaagttctt tttgtggctc atataaacct 60
 cctgctctaa atcaccatta agaaagattg gtttcacatc catttgggtg aactcaaggc 120
 caaaatgaac aactaatgta aagataatac caagataacc tttattagat acaggagaaa 180
 atgtctgtgt aattgattca ttctttttta gtaaatccct tagcaatgag tcttgcctta 240
 tatctttcaa tgttgcctaa tgaatccctt ttgggtctta agacctatct actgccaatg 300
 gcctttggcc cattangcaa ctctacaagg ttccaaactc cgttactctg caggaaattc 360
 atctcatcct tcatagcac ataccatana tttagactct tacaactcat ggttgcctca 420

naagtttctgg gatcattttc aactgcaata tta

453

<210> 19031

<211> 372

atggttttga gaaatcttta taaaaaaat taaaaaaa atgttttga atgttttga 60
aaaagaaaaa taaatctaaa atatctttaa gtgtgggggt ggctaataaa aggtaatatc 120
cttattaata agaaatgaaa aattgaaaaa aatggtaatt ggatttttgt ggatattttt 180
tactaatat tacttataga ttcttagttt gtaattcaga agtaactgaa atttctaatg 240
ttactattat gcaatctaga gatgttactt ccttgaaaa ttttttttct taacaaataa 300
atcgttaaat ctttatatgy ttgaaacaa actcccaaag cagtacacaa aaagttgatt 360
aagttattct tt 372

<210> 19032

<211> 401

<212> DNA

<213> Glycine max

<23> unsure at all n locations

<40> 19032

agctttttct taaattttaa atatgcatca aacattgcc a tgaaggtaca agttgatgat 60
tcattggctat ggaattgaag atttggccac ttcaacacac atgccttgaa gttgtttacat 120
gagaagaaca tgatgagaga ttttccaagc ataaaggaga acaatgaagt gtgtgaagga 180
tgtctccttg gtaagcaaca ccgatttctt tacgcaacag gccggagcatg gagagcgaaa 240
gactcattgg agctgataca tacggacgtt tgtggacca a tgaggagccc atcacatgag 300
aacaacaagt atttcatact cttcattgat gaattctcta gaatgacatg ggtatatnt 360
ctaatagaaa aatcaaaagt ctttgagta ttcanaaagt t 401

<210> 19033

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 19033

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ttgtjccana atcccaactc accataaacc ttgaccgggg atgagaattt ccacgtctgc 60
cttcgaaga aaaaaa aaaaaaaa atttcccat gaaatctccg aaaaaa aaaa 120
cttcgaaga aaaaaa aaaaaaaa atttcccat gaaatctccg aaaaaa aaaa 180
gaaatctccg aaaaaa aaaaaaaa atttcccat gaaatctccg aaaaaa aaaa 240
gaaatctccg aaaaaa aaaaaaaa atttcccat gaaatctccg aaaaaa aaaa 300
gaaatctccg aaaaaa aaaaaaaa atttcccat gaaatctccg aaaaaa aaaa 360
gaaatctccg aaaaaa aaaaaaaa atttcccat gaaatctccg aaaaaa aaaa 420
gaaatctccg aaaaaa aaaaaaaa atttcccat gaaatctccg aaaaaa aaaa 480

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<210> 19034
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19034

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agctngtaat attgaacaac ggaagctctc gagaaaactca aatgggtcata acttatcaca 60
cggaagctctg attcagccgc ataatatatc gagaagctgg aaattgaaca acggaagctc 120
tcgagaaaact aaaatgggtc taacttttca caggaagctc cgattcaggt gcataatata 180
tcgagacgct caaaattgaa catcggaagc tctcgagaaa ttcaaattgg cataacttgt 240
cacacgaatg tccgattcag gcacataata tatctagatg ctcgaaattg aacatcaaaa 300
gctctcgaga aactcanatg ctcataactt atcacacgga tgtccgattc aggcacataa 360
tatatcgaga cgtctgaaat tgaacaacgt atgggtgtcg gaaattc 407

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<210> 19035
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19035

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tgaatttgac aacagaagct ctgagaaatt caatgggtat taattatcac acggaagctc 60
gattcaggtg cataatatat cgagaccctc gaaattgcac aacggaagct ctaagaaag 120

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acaaatgggtg ataatTTTTT aaaccgaagt ccgattcagg tgcataatat atcgagaagc 180
 ttgaaattga acaatggaag ctctcgagaa attcatatgg tcataactta tcacacggaa 240
 atccgattca agcgataat ataccgagac cctcgaaatn acacaaacaa agcctcgaag 300
 TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT
 TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT
 gaagtcogac caggcgata ata 44

<210> 19036
 <211> 373
 <212> DNA
 <213> Glycine max

taaagctttt atgciacata tggagaggtt aatgaaacaa cgagatgatg cgtccatga 60
 gaggttggat caaatggaga atagagatca taatgaagaa gaaaggagga gaagagggaa 120
 tgatggtggt cctagacaaa accgaattga tggattataa ctcaacattc ctccatttaa 180
 aggaagaat gatccggagg cctacttga gtgggagatg aaaatagagc atgtttttctc 240
 atgccacaac tatgaggagg accagaaggt gaagcttgcc gccacggagt ttcccgacta 300
 tgcctttgtg tggtygaaca agctacaaaa ggagagagca agaaatgaag agccaatggt 360
 tgatcacatgg acggagat 378

<210> 19037
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19037

tgaatcggac atccgtgtga aaaggtatga ccatttcaat ttctcaagag ctcccgtagh 60
 tcaatttcca gcttctcgac atattatgag ccgaatcgg acatccgtgt gaaaagtrac 120
 gaccatttga atatcttgag atcttcgat gtttaatttc gagcgtatcg atatattata 180
 agcctgaatt ggacatccgg gtaaaaagtt atgaccattt gaatttgcca gactttccga 240
 tngttaattt cgagcgtatc gatatttat acgcctgaat ccgacattcg tggaaaaagg 300

tatgaccatt tgaatttctc aagagcttcg ggtgttcaat ttctagactc togacatatt 360
atgggcccga atcggacatt cgtgtaaaag ctatgaccat ttga 404

<210> 19039

<211> 100

<212> 100

<213> 100

<410> 19039

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gaggctgttc ttgactctgt catcttgaag ggtgacaatt gttgttcaa gcctagccga 120
tttgaaaggg aatttgcct atacaatggc totagtctca accacattga ggttgttctc 180
ctttctcttg caactctct tanagcttca tctccaagca atagaatgat tgcacttcgg 240
gatttagcaa tcatctctga tttctctctt gagcttagag attcaaacat ctttctctct 300
cctttaagag cttctgcata gccatgttga atcaagattg cttccatctt gattctccat 360
aaacccaagt cttttctcct tanaacttct caatatcgta c 401

<210> 19039

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19039

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ttatgaaaac agtctaagca atgctggtgt tttatttggt ttggaactaaa cttaaactatg 120
gttgtgtac apattaagtt ggacaaggaa aagaaaagtc tctcaattcg agagagaggg 180
atcggtatga ccaaggagga ttggataag aatctgggga ccatagcaaa atttggaaact 240
tctggtatgt atgttgcgga cattatcgtt gaagtaattt ttgtttgtga tgtgactggg 300
aatatgttaa ttggagatgt gtgttatttc aacatttgtt gagaagatgc caacaagtgg 360
agatctcaat ctgathgcgc agtttggagt cagcttctac tctgttatct tgtggccgac 420
tat 423

<210> 19040

<211> 407
 <212> DNA
 <213> Glycine max

<400> 19040

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 gattatgaa gattatgaa gattatgaa gattatgaa gattatgaa gattatgaa
 gattatgaa gattatgaa gattatgaa gattatgaa gattatgaa gattatgaa
 aatttatatg agcagagagg agcagagagg agcagagagg agcagagagg agcagagagg 241
 ctgagattgtg catctgggtca gagaaatcaa atgttgtgtgt cctattttatc tatggtggat 300
 gtaaccgggtt gagcgatata tgaagatctt aaaaggytat acaaagaatt tatatcgtcc 360
 ggaagcatct attgttgaga ggtacattgc agaaaaacca ttgaatt 407

<211> 19041
 <212> 287
 <213> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19041

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 aggtcgatcc tagcgcatca catatcgaga cgtctctaat tgaaaaccgc aagctctcga 120
 gaaactcaac aagtcataaa ctagtcacac ggaagtcgga ttccggcgca taatatatcg 180
 agacgctcga aattgaacca cacatgctct cgaagaattc caatgatcat aacttttctc 240
 acagaaatcc gattctggcg catcatatat cgagatgggc tgaattg 287

<211> 19042
 <212> 373
 <213> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19042

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 ggggaagcgat cgcgcaccgt gatggcattg agagccctat agtctacaca aaatctccat 120
 gatccatctt tctttctttac cagcaagaact ggggatcaaa atggactcga cctaggttat 180

ataaaaacatt tggcgagcat agtagctacc tgttcttcga tctccttctt ctgaaagtaa 240
ggatatctat atgggtctaac cgttcacggg gttgagttag gcaatagatt gatgggtatga 300
ctgtgtggatc gtgatgggtg canggtctgt ggaggttga agaggggaagc gtatntgggtg 360
ctgtgtgtgtgt

<210> seq
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19043

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gattntgaaa taatgtgtga tgcaagtcat tatgcagtaa gagcagttct gggtcacagg 120
aaaaataaaa tgtttcatgt catacactaa caagcaaggg tttaaatgaa gctcaaataa 180
attatgccac aactgagaaa aaattgcttg caatagtata tgctttggaa aaatttaaat 240
cttattttgat aggatctaaa attgtggttg ttactaatca tgctactata agatattttg 300
tagttaaagc tgattctaaa cctgaacta tccaatggat tetattgttg caagagtttg 360
acttaaagat caaggatgaa aatggaagtg aacattatgt ggcagatcat ctgtccagac 420
tgaccattga tgaggtgacc acacaataa 449

<210> 19044
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19044

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gcatattcac tcttatctga ttttttgta ttatctattt taccctattt ttcaagggtt 120
ttggcactaa gaaggcccta tggttggttc cattgttttc aaaagaggat ttaaaccaaca 180
tacctgcact aaggggcatt gatttcccta caagttcggg tgttgatgta tgaaagcttg 240
gtagcttata ggtttgaaca ttttttctat taaatgaggt catttatgct taacttcatga 300
cagttcaggg tanggcctga aagtaatact ctacttgatt gctgagtttt taaattatag 360

aatngtccag tagatgtata tatgtaatgt togattcaga atgtttgatt attcctataa 420
totaagaacc tgtgatct 438

<210> 19045

ggtctctgtt gtttaaattt gagcgtctcg atatatata tcccagaatc ggtctctgtt 42
gtgaaaagtt tgaaccattc gaattctctg acagcttcgc ttgttcaatt togagcgtct 120
cgatatatta tgtcccaaaa tcgacattt ggtgaaaag gtatgaccat tcaaatctct 180
tgagagcttc cattgttcaa ttccagcgtc ctagatgagt tatgtccgcg aatcggacat 240
cctatgaaaa ggtatgacca ttcaatttc ccagagctt tctttggtca attccagcgt 300
ctagatgaa ttatgtccgc gaatcggaca ttctatgaaa agttatgacc aattgaatat 360
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<210> 19046

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19046

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gcttccagc ttctgtcttc cagtgccttg aggaaggcca ccattctctc ttccaatat 180
tcatagtcgc ttccatcgag aattgggtgt ctgtcactg gtcagcttc ttctccatg 240
ttccacagaa ttctctcttc tagatctcac tctgtgattt ccagtgttgg ctctgatacc 300
aattgaaatt ctgataccag gggacagatg tcgtacaaga tgtccagaca tcacgcttca 360
gaacatgcag atttatatgt tccgtatgaa cagattatac aagtaaataa cacaagagaa 420
ttgtgtaccc aggtcggctc taccctacct acatc 455

<210> 19047

<211> 361

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19047

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 tgtatttcgtt taaaatgcat gaagatagat cagtaggaga acaattgggt ttggttaata 120
 aaatgattct agatcttgaa aatatcgatg tcaccattga tgatgaggat caagctttgc 180
 tattgctatg ctttttgctt aagagttact ctcatctcaa agagacttta ctatttgga 240
 gagaactctgt ttctcttgat gaagtgcatt ctgctctgaa tttaaaggaa ttgaatgaaa 300
 gaaaggaaaa gaagtctctt ataagtgggt aagggtctgac aacaagaggg angaccttca 360
 agaaagatag taaatctgat aagaaga 361

<210> 19048
 <211> 387
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19048

 agcttgtatg tttgtacatg accaaatctt tagttaatcg tctttacctt aagcagtctt 60
 tgtatttcgtt taaaatgcat gaagatagat cagtaggaga acaattgggt ttggttaata 120
 aaatgattct agatcttgaa aatatcgatg tcaccattga tgatgaggat caagctttgc 180
 tattgctatg ctttttgctt aagagttact ctcatctcaa agagacttta ctatttgga 240
 gagaactctgt ttctcttgat gaagtgcatt ctgctctgaa tttaaaggaa ttgaatgaaa 300
 gaaaggaaaa gaagtctctt ataagtgggt aagggtctgac aacaagaggg angaccttca 360
 agaaagatag taaatctgat aagaaga 387

<210> 19049
 <211> 452
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19049

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gacacccctt	gacagaaaac	aaatgtccca	agtaattgat	tttggttggt	ccaaaagetg	130
attttttgta	gttgaatgcc	aagttggcgt	cttgtagtat	cttgtagtga	gtgtgcacgc	240
cttgcctatc	cttgcctatc	cttgcctatc	cttgcctatc	cttgcctatc	cttgcctatc	360
cttgcctatc	cttgcctatc	cttgcctatc	cttgcctatc	cttgcctatc	cttgcctatc	480
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cttgcctatc	cttgcctatc	cttgcctatc	cttgcctatc	cttgcctatc	cttgcctatc	960

tgcaattgac ataaaggagac gtcccanaat gactygtacc teatggtctt cctccagatc	60
catgaccaca aaatcagctg gaaagacctt cactttttatc aaaacattct caattacccc	120
ggaagggtctt gtgatggatc ggtcaacaag ttgtaaagtc attctcgtgg gcatgatttc	180
caactctcac aaccttctac acatggagag cggcattaag ttgctactgg ttcccaaatc	240
aatgagagtc tttctgatgt gccatcattt tcttctatct cttaaaacct ttntgcacca	300
ttttaattac tgattagctt taattgcaa attaattaag cagttttatt atttgggcac	360
attgagctaa ttgatgttt ntaatctaat ttcatgaatt aatgaaacat tggggttaat	420
ctgga	425

ntgatgggtgt cgagaagaaa tccatgtct gtcatcatct tataagggga gaatgtgaat 60
 gtatgtatac atgattttga tgaatgcataa gaagaattta acaaugcttc ttcaaatgat 120
 aagcattttc ttcaagaata attcaagatt gcttcaacaa acaaaagcctt ggttcaaat 180

tcactaaaga ccaagccttg ccttaaaaca aagtgccttc aagacatgca aggcctctgg 240
aatcgattac caggaagtgt aatcgattac cagaagacag gggtgagaaa tagcagttga 300
aaaaggcttc gaatttgaat ttaacatgt aatcgattac catatgtctg taatcgatca 360
tctatgtg tcttggaa atttattt tctatga

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19052

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cggagcccca tgaattgatt gccaaagct gtccatgcat ccttcctcat caaatcttat 120
tcggagcccc atgaattgat tctcgttcat gcctcctcaa ccatcagtc cggagcctta 180
cgaatagaat gccaaagctct gtccatgaat cctctatcat caaatcttat tccaagcccc 240
atgaattgat taccattcat gcctcctcaa ccatcagtc cggagcccca cgaattgatt 300
gcctagtgtt gtccgtgcat cctccacct cttattcaga gccgcattgaa tngattgtcg 360
tccatgca 368

<210> 19053
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19053

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ttcttggtta gattatatat atatacagg acttactcca ctcaatgcca atgtctatct 120
ttaatgttta aatttagagt tgatctcttt tctcaatttt tcaattaaaa ttacatcaaa 180
gaagtcatat atttagagat aatacattgt ttattcttga taaggatgtt caaaactaat 240
tacacaagtg aggaactaaa attgagtcct gatacaaatt tatccttgta cagaagtctt 300
tagtateatc tctaattgatt ctcaaaactat taattatctc atcatttatg tcttgataaa 360
tttagatata agtcattgaa atatatttct ttgtcaaaag ttccataat acttatctca 420

acaatccatc aaatatt

437

<210> 19054
<211> 414
<212> DNA
<213> Glycine max

atattgggt atattgggt aaattttatt tgttgcata atgataatg aattttatt
cttggacctg aattgtatca acagattaac gaaatagtg ggttgattcg agagaagata 120
aaagtatctc aggataggca gaagagctat tatgatataa ggaggaagcc actagatttt 180
catgaaggag aatatgtgtt ttgaagggt tctccgtaa ccggagtccg aagagctctt 240
aatgtatgga agttgacacc caagtatcta ggtccatata aaattttgaa gaagattggg 300
cttgnagctt atcatatcgc cttacctccg agtttatcga atctgcaccc tctgtttcat 360
gtctctcaac tgagaaggta caaccagat ccacacata taattgcagt ggac 414

<210> 19055
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19055

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gttggacttc ccagaaaagt atggagtcag caccactttt aacatttctg atttaattcc 120
ttttgcaggt ggagctgaga ttgaggagga ggaactaaca gatttgagga caaatcatct 180
tcaaggggaa ggggatgatg caatcctccc taggaaggga ccagtcacta taacctgag 240
caagaggctc caagaagatt gggctagagc tctgaagaa agcctatgg ttctcatgaa 300
cttcagggtg gatttctgag cccatgggac aaggetgagt ccaattatct ttgtacatat 360
tagactanga tctcattata ttgggtcctt gtatttangg ctccatattc tangtagggt 420
acctatataa tatac 435

<210> 19056
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 19056

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 tctctgaa ctgagctggtg cttctctggtg cttctctggtg cttctctggtg
 tctctgaa ctgagctggtg cttctctggtg cttctctggtg cttctctggtg
 tctctgaa ctgagctggtg cttctctggtg cttctctggtg cttctctggtg 120
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 tctctgaa ctgagctggtg cttctctggtg cttctctggtg cttctctggtg 240
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 tctctgaa ctgagctggtg cttctctggtg cttctctggtg cttctctggtg 300
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 tctctgaa ctgagctggtg cttctctggtg cttctctggtg cttctctggtg
 tctctgaa ctgagctggtg cttctctggtg cttctctggtg cttctctggtg 420
 tctctgaa ctgagctggtg cttctctggtg cttctctggtg cttctctggtg 480

<210> 19057
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19057

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 agaatggaga aggagaaaga tgaatggaga cgcacttca agtagaagat gagtctagaa 120
 aaagctcacc accataggat gccatggata agagcttgaa ggtagaagaa gatgaatgaa 180
 gggacaggaa aagaagagca cgaaatttag tgcctctaaa gaagtctgaa ctttgaagtt 240
 taattctcaa aatgatcaaa gttcaaaaaa atgcacacac atgacctcta tttatagcct 300
 aagtgtcaca caaaattaga gggaaatttg aattctctatt caaatttctc ttaaatntgt 360
 ggagccaaat ttggagcca aaatttctct aattatgatt agtgaatntt agttatggtt 420
 cagccacta atccaagatc aagtc 445

<210> 19058
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19058

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attaaagaag ttttaattatt ttgatgtgaa acatgtttct actccttata actcatccat 120
 caagttaaag aaaaatttga gtaaaggatt ttcttcacat aaatattctc aaagtattga 180
 ttccttattg catttgacaa acttctctag gccagacatt gcataatgag ttggttagatt 240
 ggttatttatt ttttatttatt ttttatttatt ttttatttatt ttttatttatt
 ttttatttatt ttttatttatt ttttatttatt ttttatttatt ttttatttatt
 aggtttaat gatgcattt gatttttga ttctatgaa acataatcaa aaacttttt 4
 ttttttact ttagctagt 414

<210> 19059
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19059

nttactgct tatcttgacc caatttgca acttcaagat ctctcactg gtgtaagctt 60
 tgcctcagge ggtgccggat atgacctct aacagctgaa ttagtggtac ataaccatat 120
 attcaacctt gttcatgcta tctatcaatt aataatttac tttggcacat cttagagcta 180
 actccagtct attttctctt tgcacaaga atgtgatgtc attgtcagat caattagaca 240
 tgttcaagga atacataaag aagataaatg aagcggttgg aagaaacaga acgacaatga 300
 tagtatctaa gagcatatac atagtatgtg taggaagtga tgacattgcc aatacttact 360
 atcaatcacc ttttaggagt gctgagtatg atattccttc atacacggac ttcattggctt 420
 cagaagcttc anaattctt 439

<210> 19060
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19060

tgtccgcana anacaccca agaccgtttt aagggtccaa gccttanaac ggtcctcttt 60
 gcttatattg gttaaaagg accattcaaa gcataaaatc aacatataaa tttatcctt 120
 ttccaagaac tacgtagata tgattttctc atcacaattt agcatacgtt aaagcaaaa 180

ccccactttt gtgcaccacc ccaagagatc gttaattatc caacgcctta acgcttctct 240
 cttttcaaaa atcaagagat cattaatggt ccaacgcctt aatgtttctc tcttttcaaa 300
 atcaagaaat tgttaatggt ccaaacgcct taacgtttct ctcttttctc aaaatcaaaa 360
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<21> 14161
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19061

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 tagcactcatt ttggcactaa actattggga gttggaagtc atctctctaa ttaaatctct 120
 agcttcaaca ggggtcatgt ctctaggac tccaccacta gcagcatctc tctactctct 180
 ctccatatta ctgagtcctt cataaaatat tggagaagaa gctgctcaga aatctggctg 240
 ttgagggcaac tggcgcatgg tttttgaaat ctctcccagt attcatatag gctttctcca 300
 ctgagttgcc taatgcctga aatatctttt ttgatggctg tggctctgga ggcagagaa 360
 atttttctc agaatactct ctgaggtctc tccagctctg cgatggacct tggagcaagg 420
 taatatagtc agt 433

<210> 19062
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19062

tgcctaatta acctgaaatt gagagaaaat gattatctaa tttactaaat ggaagtacta 60
 agtatctatt gcttatctt aacagaaaat acctataaca ctacaaaata acctataatt 120
 ggaagagttt gatacaattt acacaagttt cacacacata agttagttgt attcatcgac 180
 taacaatggc ccaaaattta attgcatggg gcttctctca attcaattaa attctctctc 240
 caacacacac acatcaata gtcacttaa tgcattctaa attacaaaac tacccttaatt 300

acaaaaaacta gtctaggtgc cctanaatac aagggtctaaa aaatcctaca ttactagggc 360
 accctcccta cactacggag cctaaatac aaggaccaa aataatgaaa ccttaatcta 420
 atatgtacaa agataagg 433

<211> Glycine max

<212> unsure at all n locations

<400> 19063

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 aatgattcaa atcattgttg agaaaatgto ccaatcatgg ttttgatgat gttaccacgc 180
 taagcatatt ttgcaatggc ctaaggccta aaactaagat gattctggag gcagtcgcta 240
 gtggaacaat tatgtttgta gatgttgaac aagccacaag gataattgat gcctttgctt 300
 caactgatca ccaatctcag cataacagac aatcgataca gaaaagagga gtgttggtac 360
 tcattctcaa gggtttttca aaggaagtgt aaaaacattt tgttggtgga cctataaac 420
 aagagacgct gagagaagct c 441

<210> 19064

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19064

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 ttggacctcc tagaagagta tagagtcaac accactttta acattttctga ttttaattcct 120
 tttgcaggtg gagttgatat tgaggaggag gaactaacag atttgaggto aaatcctctt 180
 caaggggaag gggatgatgc aatcctccct atgaagggac cagtcactag agccatgagc 240
 aagagactcc aagaggattg ggcctagagc gtggaagaag gccttagggt tctcatgaac 300
 ctcaaggtag atttctgagc ccaagacaa aggttgggtc caattgtctt tctacatatt 360
 aactatgat ttcattatat ttcactcttg tttttanggc tccataatgt andadugta 420

ccctagaaat at

432

<210> 19065
<211> 439
<212> DNA
<213> Glycine max

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caagtggcgtt tgatgggtata gcaattgaca tgcagagaaa atccgagttct totgagtgtt 180
aaagagagaa gcttcgtgaa tatgaagcacc aatgtctgtga gaagatttca attgatgatg 240
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ctcccttact tgactgtaaa gagacgcagc agggatctgt tgattggaaa attgatgaga 360
gaacgattga ggaagtaatg atgctgagtg atcagaggaa ggtgacagtt ctgtatgaac 420
ctctgtctgg ttgtctatc 439

<210> 19066
<211> 345
<212> DNA
<213> Glycine max

<400> 19066
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ttaactggat gtccgattca ggcacatcac atatcgagac gctcggaatt gaacaacgga 180
agctatgaag aaattcaaatt ggtcataact tttaactoga atgtctgatt gatgtgcacc 240
acatctcgcg acgctcgaaa ttgaacaacg gaagcaatcg agaaattcaa atgggcatac 300
ttttctgacc gatgtgcgat tcaagtgcac cacatatcaa gacgc 345

<210> 19067
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19067

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 aatataatag tgaggggtag aggggtgtcac actatatata atgtgttatg ttttagtggt 120
 ttaattataa atttatttba cttaacaaagc atttatttta ctataataga ttttttttaa 180
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 atttatttta atttatttta cttaacaaagc atttatttta ctataataga ttttttttaa 360
 atttatttta atttatttta cttaacaaagc atttatttta ctataataga ttttttttaa 420
 ttatgggtta t 481

<210> 19068
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 19068
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 agtgggttcca taccocgaat ggggtggccaa tatgtgtgocg gtccctaaga agatgggaag 120
 gtatgaatgt gtggactatt gggacctgaa ccaagccagt ccaaaggata acttcccttt 180
 accacacatt gatgtccttg tggataaac acocaaatttc actttgtttt ccttcattga 240
 oggggttctcg gtttacaatc agataaagat ggtgcccggag gacatggaga agactatgtt 300
 ogtcaccttg tggggaatgt tctattataa ggtgatgttc tttaggctca agaatgctgg 360
 ggcaacctat cagcgggcta tggtagcatt attccacgat atgatgcaca aagagattga 420
 agtctacatg gatgacatga ttt 443

<210> 19069
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 19069
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 taaccttaac ctacaaccag ctctcttgaac ctattccatc tgaattggga aatgtgactc 120
 gccttatggc acttgatctt gccttcaaca atttcaactg accaatccct ccaagccttg 180

gaaacttgag ttctctecta tggctaacc ttccagataa ttctgtatct gaagaaatcc 240
 caccagagct gggaaactgc tcaagcatgt tatggctgaa ccttgcaaac aacaaaactct 300
 ttttttatt tttttttgag cttaagagaa ttcttaagaa cgttaagaaa acattttatt 360

<211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19070

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 ctcaagccat ttcttcaaga tgttgacaat caactcgcgc caattccact cccaccaacg 180
 accttggata accaacctgt gatctcatcg ttagctatct ttagctcggc tcaggaaggt 240
 ccagatgaag acatgtatct ccaagttcta gtgcagtgga agggctctca cgttagacgc 300
 acctcgtggg aggaactggc cacattgaag ggcacctatc accttaagga caaggtgatt 360
 ntatgatgagg ttgngaata tagaccaagc gggtcacaag cagtccatac cgagaggccc 420
 acaagaaaga tcacaacacc tga 444

<210> 19071
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 19071

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 aattttcta tctaatttgc atcttccaaa atcagagctc gaaaaacctt ttaagtttaa 120
 ggaagtctct ttggaatacc acaaacctac attgggttgt cctttaaga acctaatgat 180
 cctcttaaca gtagttaagt gagatctctt tggattggac tgatatattg cacataatca 240
 aacacttagc atgatatcgg gtctacttgc agttaggtag agaagtgatc caatcatacc 300
 tadtatctt gatccatca cgtatttacc ttctcatctt aagtcagggt aggttaagt 360

tgtaacgcct ttaaatttca ataactgaaa atagatgttt gatgtatttc ttgtgttatt 420
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<210> 19072

<211> 19072

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 agtctggaaa actcagaact agagccttgt tgattgcttc ctttagttgc tcgaaggcat 180
 taatggcttc tggagtccaa gtaaatgggt cctttgccaa aagtgtgtgt aatgatgtag 240
 caatagctgc atacccttta atgaatcggc atgagccatc acptttctta accaggagaa 300
 tgaagatga gaaagggcct gtgcttggct agattatgoc atttcgtaac attgattcta 360
 ctgtgttctc aatttcttgc ttctggaaat gggggtatcg gtatggtagc acattaactg 420
 gtnttgagtt tggaaggaga tggatcacat ga 452

<210> 19073

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19073

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 tgttcaaagg acactttaaa tcccttttta atcaattgac ctacacttag caagttttgg 120
 tcaatgttag gtacataaag aacatctgat attaatgtga taactgaaca tgttgaaatt 180
 gcaacagttc cttttccttt tactgaaata tagccaccat tcccaattct gacctttgag 240
 acattanttg gcttcaaaac ctggaataga gtcttatcat atgtcatgtg gtttgtacaa 300
 ccactatcaa tcaaccaact ttcacttgat tcaactactca agaagcatgt ggcacaaaac 360
 agttgatcct cctttcttgg attagcaatc tgagctccct catcatgat 409

<210> 19074

<211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19074

atgagatgaa gggatgagaa gggatgagaa gggatgagaa gggatgagaa 15
 agggagagga gagggacgaa attttgagcc tcaaagaga tctgaacttc gaagtataat 240
 tcttaaatga tcttaagtga aaatatgac atacatgacc tctattttaa gcttaagtgt 300
 cccacaaaat tggagggaaa ttggaatttc tttccaaatt tcaacttgaat ttgaaattga 360
 atttgtggag acaaattttc gagccaaaaa ttcactaatt atgattagtg aattntagct 420
 at 482

<210> 19075
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 19075

taagagcaaa aactaaggct actaactcaa gatcgtgtgt gggataattc ctttcatgta 60
 tcttaagctg tggagaagca taggcacta cctgtccccg ttgcataagc actccaccca 120
 aacccatctt ggaagcatca caatacacca caaaagattc actcgggtta ggtaacacta 180
 aaactagtgc agtgggttaac ctttccttaa gggtagcgaa actacttca cattgggcat 240
 cccacacaaa aacttgacc ttacgagtaa gcttagtcaa aggtaaggct agcttagaaa 300
 aacctctat gaattacgg tagtatcctg ctaagccaag aaagctccta atctcaaaa 360
 ctgaactagg actctcccaa ctcacacccg cctctacctt ggaaggatct actggctatc 420
 cctccttaga tataacgtgc cctaagaag 449

<210> 19076
 <211> 489
 <212> DNA
 <213> Glycine max

<400> 19076

tcaacattca atatacagcg tctcgatata ttacgggact ctatcagaca tccgagcaaa 60
 aagttactgt cgtttgaatt tgcacagagc ttcgataatc aattttctagt gtctcaatat 120
 attatccuac tcaatcagac aaccgactaa aaacttattc tgcgttttaac ttcttcagaa 180
 attatccuac tcaatcagac aaccgactaa aaacttattc tgcgttttaac ttcttcagaa 240
 attatccuac tcaatcagac aaccgactaa aaacttattc tgcgttttaac ttcttcagaa 300
 attatccuac tcaatcagac aaccgactaa aaacttattc tgcgttttaac ttcttcagaa 360
 agctttctgtc ttcaatttcg agcgtctcga catattacgg gactcactca gacatccgag 420
 taacaagta 489

<210> 19077
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 19077
 cttaattaat tgtcttgata taaaatttct acacagacta ataatttcaa agtctataca 60
 gtctgattac ttttaaattt ggatgtaatt gtgtgtttta ttttctaacc cattaaaaga 120
 gttagaaaaac aatgaagacc acaatatcat ctttttttat cattatttta aagtactaat 180
 ttatttcaat acatgtgaaa tttttttaaa aattatagtt tatacgttat ttatttaaaa 240
 cataatcttt atattataat acaaaaatat cactatttca tactcataca atcagtatga 300
 atataataaa cactataatt tgtctaatta ttattatata tatcattatt atataacaat 360
 aacatttaca atagtcgtat tctattacta ttagactcaa ataaaaatca aaatctcaac 420
 tataattattt attga 435

<210> 19078
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 19078
 agctttctta tgaagattcc taaagaatct agagctttagc tacacatacc tctctaatag 60
 ctaagctcac ctctcttgaga tgagaagcta gaacttaact acacaccccc aataatagct 120
 aagctcctcc ccatgacaaa taacatgaaa attcaaaaaa aagtccttad tacaagact 180

actaaaaatg ccccgaaata caaggctaaa accctatact actagaatgg tcaataaaag 240
 gcccaacoga aggataaacc tattctaata ttacaaaaga taagccgggt cataacttagc 300
 ccatggcttc caaatctacc cttaagctca tcaaaatcct agggccttcc ctgcctcttc 360
 <210> 19077
 <211> 399

<212> DNA
 <213> Glycine max

<400> 19079

acaaitgcac cactctcaca tgagctgggg aagaacaatg aggcatttac ctgcggtgaa 60
 aaacaagagc agtcctttgc ttgctcaca gaaaagctta ctaaggcacc tgttctagct 120
 ctctctgact gtctcaaat ttagagctaa aatgtgatgc ctctggagtg ggagttggag 180
 cngtattggt acaaggtggg cactctattg cttattctaa tgaagacctc catagtgcac 240
 cctcaacta caccacctat gataaagagc attatgcctt ataaaagccc tgcaaacatg 300
 ggaacattac ctgctttca aagaatgtgt cattca 336

<210> 19080
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 19080

agtcctgtag caaatgcaaa ccacaataaa ttatagctcg gatatcccat tgagtcocgt 60
 aataatcaca gagctcaca attgagtaca gaagctctta gcaaatcaaa acgacaataa 120
 ctctctacac agatgtccga ttgggtcacc taatatatcg actcgtctga aactgaatac 180
 cgaagctgag agcaaatcca aacgacaatg acttttacct cggatatccc attgagtcoc 240
 ccaatatac gagagttcg aaattgaata cagaaaactgt gagaaaattc taacgacaat 300
 aacttttac tggatgttc gattgagtc cgtaatatat ccagagcttc aagatttata 360
 acggaagctc gtacgagatt caaacgacaa taactttg 398

<210> 19081
 <211> 388

aatgacatga tggaaacttgt tgtagcgttg tctggagact tgattcagac catagatgtg 180

ctaattttaga atgcaaaacca tacaatttga atgacctgat acaaaggttt aggggttgcac 240

catataaatg gcttcttcaa tgtcacaact tacaatatccg agcttaacac caatataatg 300

<210> 19084

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19084

tigcttttat ctaaaatctt gactcaccat aaaccttgac ccagagtga atgttcaatc 60

cttacctctt gtagcacaac aagaagagaa tgaatatctt caatcaaacg ataaaggaga 120

aggaaaattt ccaatcaaac aggaagcaaa aaaatgaaag aatgaaaatt tccaatctaa 180

ggaaatagag aggaaggaa attcccaatc aaagagtggg agaatgcaca tagaagagaa 240

agaanattgc caatcaaga atgggagaaa gaaaaaaga gaacgataag attgacagag 300

agctcatgat caatgatga aagagaacaa aagacatgtg cagagatgtc ttgggaccac 360

acaatatctg aacaa 375

<210> 19085

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19085

attaatggaa gtcaagagca tgatattgcg ccgataccgt tcacttggtg gcaggtatat 60

cagcgggttc aacacctgaa cactgtattt gggaagacc ctaagaaggc taaaagtcag 120

agttgcatat ggaagaagag gtccatttc ttgatcttc cgtactgtgt tgatcttgac 180

gttagacatt gtattgatgt tatgcattgt gagaaaaatg ttctgtgacag tctgattggg 240

acgtctctta acattcaagg caaaccaaa catggtctta atacctctca agatctagct 300

gatatgggta taagagcaca gtgttatcca aggtctgatg ggaacaaaat ttaattgccc 360

ctagcctgcc atactntgtc caagaaggag aagataagtt ntgtcagtg tottctggg 420

<210> 19086

<211> 440

ttttaagctt caacttgggt ctatgcttca gaaatgtact cagctcagca gagactctac 60

tatctcatga gcacaaacat atagctgaag tcttatgaag gaacatagat ttgttctggt 120

ggcagcctac taacatgtctg agaatctaac ccagcattgt atgcacaaaa ttggttctgt 180

gcctttaggt caaacaaatc tcacaaaaga aaaggaagat gggagaagaa ctacgtaaaa 240

ctattagggg agagatctgc aagctactca attcccaatt catcagagaa gtcaataact 300

ctacttctta ggttaacatt gtcattgtga ggaaggttaa tggaaaatgg caactgtgca 360

cuaaatacac caactgaac aaagcgtatc ccanaggcgt gtatccctta cctagcctcg 420

acaagctagt ggacgatgct 440

<210> 19087

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19087

agcttttgat caatacaaac gacaataact ntctctctgg atgtctgatt gattcccgta 60

acatctcgag acgctngaaa ttgaaagctg aagctctgag ccaatacaaa cgaccataac 120

tttgtactcg gatgtctgat tgagtcctgt aacatctcga gacactcgaa attgaatgtt 180

gaagctgtga gccaaattca acgataataa ctctctctac ggatgtctga ttgagtcctg 240

taacatctcg agacgtctca aattgaatgt tgaacctctg agccaattca aacgacaata 300

actttttact ctgatgtctg aatgagttcc gtaacatctc gagacgtctg aaattgaatg 360

ttagacctct gagccaattca aacgacaata actttttact cggatgtctc gattgatgtc 420

cgaacatctc 480

<210> 19088
 <211> 406
 <212> DNA
 <213> Glycine max

<214> unsure at all n. locations

gagatgagga gacgagagga gacgagagga gacgagagga gacgagagga
 gacgagagga gacgagagga gacgagagga gacgagagga gacgagagga
 tattacggga gacgagagga gacgagagga gacgagagga gacgagagga 180
 gattcaacaa gacgagagga gacgagagga gacgagagga gacgagagga 240
 aaaaagttat gacgagagga gacgagagga gacgagagga gacgagagga 300
 tatattacgg gacgagagga gacgagagga gacgagagga gacgagagga 360
 gagcttcaac gacgagagga gacgagagga gacgagagga gacgagagga 420
 gtaaaa 486

<210> 19089
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 19089

agcatattga gacgagagga gacgagagga gacgagagga gacgagagga 60
 ottcttactc agatgtaga ttgagtaccg gaacatatct agacactcga aattgaatgg 120
 tgaaactgtg aacccattca aacgataata actattttca ccatgggctg attgaggacc 180
 ggaacatata gagacgctca aaaatgaatg gtgaacctct gagcacaatc agacgacct 240
 aactctttac cgggatgtct gattgagttc cgtaacatat cgag 284

<210> 19090
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n. locations

<400> 19090

ntgatctaa ttgatctct gacgagagga gacgagagga gacgagagga 60
 tagataaata aagtagagat ccaatcatat ctctgtattg ctctgtattg 120

gggattcacc tttgtctaga tagcaacttc tttcatagg agtagccaag tgttttgagt 180
 tttccattcc aaacctctta ataagttctt tccaactctt tgcattgattg acaaagatcc 240
 tttcatttct tttgttgatt tttattccaa tttcatttct ttttccacc tttcatttcc 300
 ttttccacc ttttccacc ttttccacc ttttccacc ttttccacc ttttccacc 360
 ttttccacc ttttccacc ttttccacc ttttccacc ttttccacc ttttccacc 420
 ttttccacc ttttccacc ttttccacc ttttccacc ttttccacc ttttccacc 480

<113> 19091
 <113> 463
 <113> DNA
 <113> Glycine max

<123> unsure at all n locations
 <103> 19091

agcttcacaa tatgaanac gatcatctga tgaagcttcc acattgcatt ttttcaaac 60
 cttttccata ttttaattgt tggggtgtcc aagctttctc tgcacattct ctttgaactga 120
 catgtaggta catgggtctc ttttgaactg agagttgaca cttgaaagtt ggtataatcc 180
 atctctaaaga tttcttttta gtatgtcctt cctgttcagt ttgtccttca catagcagta 240
 gtttgcacca aattcaacaa gagcattatt gtctgcagtt aatttagata caactcaacaa 300
 gtttttgggt atttctggga catacaagac attacgcaag ttgaggttat tcaattgagt 360
 ctgagctgat gccaatatgc tcaatctttt accattgcca actaacaag aattcttacc 420
 attgctttca ctgagatctt ggagttctca ttntgatgag tccatga 480

<113> 19092
 <113> 378
 <113> DNA
 <113> Glycine max

<123> unsure at all n locations
 <103> 19092

agcttatgaa gcatcaatag accttaagaa aatagttcat ttaggacaat aaacaagaaa 60
 attaatgaga gttctctag ggtgacagt ccacccatca gccatcatag tacatcagt 120
 ttttcccaa acctcttgggt aaattttac aaacttctc ctttcccaa accatttata 180
 taacaaagga ccacaaattc tataaaaaaa aaatggagat ttatcacccg gactcagct 240

actaataaca tcaatcatag gttgataata tgtcgagtta attgcattaa atggcaactat 300
 agcatctatc atccattntg caatggcttt gtcacacttt tctacaattt tcttattgtg 340
 aatcactc ttcaggt 379

<210> DNA
 <211> Glycine max

<223> unsure at all n locations
 <400> 19093

agcttgggta cctccttctt cactacatca agaattcaccg gggttgagtct tctctgttggc 40
 tctcttactg gtttaacccc atccctctaaa tttattcaat gcatacatgt ggatggggcta 120
 ttaactggaa tgtccgcacg ggctcagcct atagcctttt tatgcttctt gagaatagat 160
 aacagtctct cctcttgcct atccgcaagg gaggcagata taattattgg aaaacttttg 240
 ctatcatcca agtaagcata atttaaatnt gatggtagag gcttcaattc tgggtgtgggt 300
 ggtctggataa tggtagaaaag agatgggttc tcagcctgta ccttataaag aaagtcagag 360
 gtatgtgtac ttnctganac ahttggtagt ctatctaac 399

<210> 19094
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19094

tatcttgttt gcaaactgga tgcgttgytc aacttggtta cccagctggc ttggaataag 60
 aaatctgtac ctgtcgcaag gggttgttgt ttgtgtctct ctgctgacca ccatacagac 120
 ctttgcctt ccatgcagca acctggagca attgagcagc ctgaagctta tgcctgcaat 180
 atttacaata gacctctca acctcagcag caaaatcaac cacagcagag caattatgac 240
 ctcttcagca acagatacaa ccttggatgg aggaatcacc ctacctcag atggctcagc 300
 cctcaacaac aacaacagca gctgtctct tctctcaaa atgct 345

<210> 19095
 <211> 422

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19095

gagataggaac cgggtatgac cacacccgtc cgtgaagaat taatggccct gccaaaaaac 60
taccaagaca tctttgcctt gtcataccaa gatatgcccg gtttgagtgc tgacatcgta 120
caacacagat tacctctaaa tcccgagtgt tccccggtaa aacaaaagct gaggaggatg 180
aagcccgaga cgttcttcac aataaataaa agagggttaag aaacaatttg acgttggtt 240
tctgctgtgt gctcggtact cggaatgggt tgccaacatt gtaccagtc ccaagaagga 300
tgggaaggta tgaatgtgct ggat 325

<210> 19096
<211> 325
<212> DNA
<213> Glycine max

<400> 19096
aagataggaa cgggtatgac cacacccgtc cgtgaagaat taatggccct gccaaaaaac 60
taccaagaca tctttgcctt gtcataccaa gatatgcccg gtttgagtgc tgacatcgta 120
caacacagat tacctctaaa tcccgagtgt tccccggtaa aacaaaagct gaggaggatg 180
aagcccgaga cgttcttcac aataaataaa agagggttaag aaacaatttg acgttggtt 240
tctgctgtgt gctcggtact cggaatgggt tgccaacatt gtaccagtc ccaagaagga 300
tgggaaggta tgaatgtgct ggat 325

<210> 19097
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19097

agcttatact caatgagctc ttcattgaca caagccctag ggtgatgaa tccctactcc 60
aaagggcatt gcatagaaga ctccaagaag attgagccag agatgcarga caagggccta 120

gggttcttat gagccttagg gtagattttg ggcccatgga ctcagtatga gccacttat 180
 ctttgtatat attagattaa ggtttcatta tttttgggccc ttgtatttag gggtccatag 240
 ttttggaggc ctaccctagt aatgtaggat ttttcagccc ttgtattta ggttccatat 300

<210> 19098
 <211> 328
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 19098

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 gataaaagtt aatgtcgttt gaattctata tgagcttcgc ttttcaattt ggagcgtctc 120
 gatataattac aggaactcaat cgtacatcta agtataaaagt tattgtcgtt tgaattttct 180
 cagagctttct gttctcaatt tcgagcgtct ccataatatta cgggactcaa tcggacatcc 240
 gagtaaaaag ttattgtctt ttgaatttga tatgagcttt ccttttgaat ntggagcctc 300
 tcgatatatt acaggactca attagaca 328

<210> 19099
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 19099

ttcttttaaac tctgtacaac aatgaagctc tgataccact tgttaaaca gttggcctcag 60
 atatcttaag aagggggggg tgaattaaga ttttccaaac ttttctctta attaaaaatc 120
 tatcttactt tgtacttaag ttatgaattc ccttaatgac aatcttctta tatattaat 180
 caaatgaagc agcttgaatt atgaatataa agcaataata aataaaggag atctaaggaa 240
 gagaacatgc aaactcagtt ttatacttgc tcggccacac ccttctgctt acgtacagtc 300
 cccaagcaac cgccttgaga gttccactaa ccttttaaatt ccttttaaaa gttctaaaca 360
 ca 362

<210> 19100
 <211> 426
 <212> DNA
 <213> Glycine max

atgagcttct atgagcttct atgagcttct atgagcttct atgagcttct
 atattttcca ctcaaatctt catatgttgg aaagtcatta atggtataga atagcattgt 180
 acacaaacttg aatgtctcat tttaataccc atcaaataga acaacctcct cgtccacaaa 240
 ctgtgtcaag tcttcaatca agggactgag ataaaaacatt aatgtcaatt tctggttgtc 300
 ccatagacaa catcatgtat gttegtttca tgcacaaaca atgaggataa ttgaaattac 360
 tctcaaaaac ggtcatgaac tgtgtcgaga gcttaaacta ccatagagat tcatccatc 420
 actggt 426

<210> 19101
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19101

ntgagccaaa atcttgactc accatanacc ttgacctcag gtgataatgc caatccttac 60
 cctcggaagc aaaaaagaat agaggggaaa ttccaatca aagaaaaaga gaaggataat 120
 ttccaatgaa agcaaaaaag aaatgaagga atattcccca atcaaaagagt gggagatagc 180
 aaaaaaagga aaagaaggaa aattccccaa tcaaaagagt ggagatagca aaaagaaaag 240
 atagataatt cccaacccaa gaatgggaga aagtaaaaaa ggaagagaag atagcttctg 300
 gtcaaaagata ccagaagata tgtgcagaga ggtctttaga accgacaata tctgaacaat 360
 acagaattgt cactaaatga acaaaaaaga ggaataggaaa ccgtgacctt naatgggtctt 420
 ctccctttaa t 431

<210> 19102
 <211> 419
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19102

ttatgggaaaa aaatgaaaga ttgataggtt actgggtcctg gctnragena ctgggtcaga 60
tcttctctctct ctctctctctct ctctctctctct ctctctctctct ctctctctctct 120
acatcaaca ctattttctt tcaacctctt aaacctcaaa acctacaaa agggcttacc 240
tagaaactc aaattcaget catagtgggt ctctctatgc cctccatata ttagggcctg 300
tagacottaa ctccaaggag tggctnctgt gccttgggtg ctgattcttc tgcctctgac 360
gcattagatn ttgctaatga gtccaacatg ttgtcctata tntacctccc catatcagc 419

<210> 19103

<211> 463

<212> DNA

<213> Glycine max

<400> 19103

actcagcttg tcaaaaggga agcaagttaa gaaatccttt caaagcaaaa acgttgtttc 60
tacttcaaaa ccccttgaac tacttcacat tgatttattt ggccctcaa gaactatgcg 120
tttaggtgga aattactatg gcttagtaat agtagatgat tactcaaat tcttggactt 180
tgtttttgaa aacccaaaaat gaagctcttg atgattttca caaacttgcg aaggtgattc 240
aaaatgaaaa aggtctcaac attgtttcaa ttagaagtga tcatggaggt gaatttcaaa 300
atgactttta tgaaaaaaat gaaattcacc ataatttttc tgcctcaaga acatctcagg 360
agactgggtg ttgtggagagg aaaaatagat ccattgaata aggtgcaaga aacctttctaa 420
atgaaacaag gttacctaaag tacttttggg aagatgtata catactat 463

<210> 19104

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19104

gaatgccttc tgtcttctgc caatcgaata aattcaactg tgcctcaagt ttgcactagt 60

tcttgaacca taatgatact ggtcaatctt tagttcaaat ggacaagsta aatgtgaaat 120
 ctaattgtca cctatacagg aatttggagg gaagagtgga aaggcggcag aaaacagaac 180
 ccatacctgt agtghcaagg acagaagaat gacttttctt taaattcccc agactttctt 240
 cctatgagctg cctatgagctg cctatgagctg cctatgagctg cctatgagctg 300
 cctatgagctg cctatgagctg cctatgagctg cctatgagctg cctatgagctg 360
 cctatgagctg cctatgagctg cctatgagctg cctatgagctg cctatgagctg 420
 cctatgagctg cctatgagctg cctatgagctg cctatgagctg cctatgagctg 480

<210> 19105
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 19105
 tgaatcggac atccgtgtga gaagttatga ccatttgaat ttctcaagag ctcccgctgt 60
 ccattttcga tccctctgac atattatgca cccgaatcgg acatctgtgt gagaagtcac 120
 gacatttga atttctcgag agtttccgat gtataatttc gagcgtatcg atatattata 180
 accctgaate ggacctcagt ctgaaaagtt atgaccattt gaatttgacg agagcttccg 240
 ttgttcaatt tgaatatca ctgtatgtga tgcgcctaaa ttggacattc gagttaaatg 300
 ttatgaccat ttgaatatct caagagcttc cgttgttcaa ttctgagcgt ctcgatatgt 360
 gatttgccctg aatcggacat ccgtgtgaaa acgtatgacc a 401

<210> 19106
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19106

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 actgtgggtg aacatttgtt atgcgagaac aagttcgagc agattgtctc caatgaagaa 120
 tgttaagtgtt gtactttgta acagacatag aaaagaggca gagtgagaac ttacaaaaac 180
 ctgcgggatg uccaadctac caatagtgat gccgganana aggtcagatt tgaagagttt 240
 gagattatac ttangacccc atggagaat aggggaacaa tattgagctc caaggatcag 300

ttttctctta agaggttggt ccttgaattg ggcagagga tcatcangga agaaagtctt 360
 ttgagccta ccttgagtt ttg 384

<10> 19103
 <11> 420

<12> DNA
 <400> 19103

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 aaggaaaaaa ctattctaat attacaaaag ataagcgggc tcatacttag ccgatgggt 240
 cgaaatctac cctaaggctc atgagaaccc tagggccttc ccttggatct ctagcccaat 300
 caacttggag tctttacccc aatgccttg cgggtgtanga ttgcacaaat atgt 354

<210> 19103
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19103

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 gatgattata tttactatct cttggcttgt tatggttatg aattttaaac ttagtatttt 180
 tgataatata tgatcagttg tatgtacttt tatttgggta ttatgagtga cttttcttga 240
 ttatatgaca ttctatgaag tatatctctt taagattgat gaatggttaa gttatcttgt 300
 ttgaattgtt tctattctct tttatgatta gtaatttatg tatgttttat atttggatat 360
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<210> 19103
 <211> 427
 <212> DNA
 <213> Glycine max

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 gagaagctcg aaaatgaaca acggaagctc tggggaacat aagatggtca taactttca 240
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 <211> 311
 <212> DNA
 <213> Glycine max

<400> 19112
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 catctcccca agttaagctc aaatcctggt agaagttgcc agcagaggtt gcgatggaag 180
 aggcacaatc aaatacataa aggacagttt ttgttgaaaa tgtaatggaa tgaagagaag 240
 ccatgattgt tttgaatgaa atgtagaaag aggaagttaa aaatgtagta gcttggtaga 300
 agtaatgaaa t 311

<210> 19113
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19113
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 accgcaaagc agatagcttg gaaatttcag atggaattgc tccagacagc ttattacttg 180
 aaagatcaat catctccacc aataccagat tgtctctgta ctctaaccca tctctcttgg 240
 gaactaagac aagagtttcc ttgtagtggt tataactgaa gtcagagcca tatgaataac 300
 ttanagggtt ggcaagaag tcatcttcc cagccattgt ctctatgcca tccaaacaat 360
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<210> 19114
 <211> 366
 <212> DNA
 <213> Glycine max

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 acaattttga angaaacaat gtatggaaat tagtagaaaa acccgaaaat tatectatca 240
 taggaacaaa atgggttttt agaaataagt tagatgaaca tgggtataatt attagaaata 300
 aagccaggtt agtagcaaaa ggttataata tagaagaagg aatagastat gaagaacat 360
 atgctc 366

<210> 19115
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19115

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 ttttactcgg gatgtctgat tgagtcctgt aagatatega gaggetcgaa attgaatctt 180
 gaactcttga gctaattcaa acgacaataa cttttttctc ggatgtctga ctgagtcctg 240
 taacatattg agacgctega aattgaatgt tgaacctctg agctaattaa aacgacatta 300
 actntttact cagatgtctg attgagtcct gtaacttate gagacgctcg aaattgaacg 360
 ttgaagctcc gagccaatcc aaacgacct aactgtntac tcggatgtct gattg 415

<210> 19116
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

[illegible]

s210.	19117
s211.	407
s212.	DNA
s213.	Glycine max

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<023.    insure at all n locations
<400.    19117

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accgcaaagc agatagcttg gaaatttcag atggaattgc tccagacagc ttattacttg   180
aaagatcaat cattctcacc aatatcagat tgtctctgta ctctaactca tctcctttgg   240
gaactaagac aagagtttcc ttgtagtggc tataactgaa gtcagagcca tatgaataac   300
ttanaggggt ggcaaagaag tcattcttcc cagccattgt cttcatgtca tccaaaccaa   360
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<210>	19118
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<212>	DNA
<213>	Glycine max

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4223>      unsure at all n locations
4400>      19118

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cacatgaaca tcttccatat tttctccata atgcttccatt tgggtccaaa tagccaacac 240
 ctgtgtgcca aaatctgaga tagattcgga ttccttcata tgcattgatt caaactctct 300
 acatagaatg taacttcata ccttgcttctt ccaacatgac aatattgaaa gcataaaattt 360
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<21> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19119

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 gcttgaatcg gacctctgag ctaaaagtta tgaccatttg aattctctga gagccttcgc 180
 ctgtcaattt catgcgtctc gatataattat atgcttgaat cggaccttcgc agttaaagt 240
 tatgaccatt tgaatncttt gagagcttcc gttgggtcaat ttcgagcgtc tccatatatt 300
 atgtgcctga atcgaaactc cgagtgaact tgtatgacca ttngaattgc tcaacagctt 360
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<210> 19120
 <211> 319
 <212> DNA
 <213> Glycine max

<400> 19120

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 ctgaccttcg agagacaagt tatcactcat gccaattgct catgagcttc cattgttcaa 180
 tctcagagctt gtcgatatat tatgcgcttg aatcggacct ccgacttaag agatatgacc 240
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 caatcggaca 319

<210> 19121
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 19121

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<210> 19122
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19122

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 gcgagcaagg tagtatagcc aatctttttg cactccctcc agagaatgag gaaaagcctt 180
 tagaaagata tgatcttctt ggacatcagg gggcttcatt gtggaacaaa caatatggaa 240
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<210> 19123
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 19123

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 ttacaacaga tctgaagttt aacagttatc atattttatt ttgttgcata aatattgaaa 180
 ataagttgca aataagataa tgacaatttt gatagagatt tagttggtaa cataatgttc 240

<E10> 19124
 <E11> 428
 <E12> DNA
 <E13> Glycine max

 <E23> unsure at all n locations
 <E30> 19124

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 gatccttcca cccaagcata aagaccttgn gagtgttaact attccttatt caattggaga 180
 agtcaactgtg ggaaaggctc ttattgacct gngagccaac attaatataa tgccactctc 240
 catgtgtaga aggttggggag agttggagat catgccact angatgaactn tacaacttgt 300
 tgatectcc attaccagac catatggagt aattgaagat gtgctggtca gagtgaacaa 360
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 aataatgg 428

<E10> 19125
 <E11> 421
 <E12> DNA
 <E13> Glycine max

 <E30> 19125

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 acaactccca cggcatatag aatatcgggc ctgtgtattgg ttagatacct taaactcccc 180
 acaagacttt tgaagatcgt aaagtctacc tctctctctt catcaaaactt tgataacttc 240
 aagccacttt ccataggtgt gtccacggga ttgcaatcaa gcatattaaa ttacttcaac 300

acttcttttg tgtaccttcc ttgtgagaca aagataccat tctcgtttt ctccacttcc 360
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- 480

<223> DNA
<400> Glycine max

<223> unsure at all n locations
<400> 19126

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<210> 19127
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19127

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<210> 19131
 <211> 453
 <212> DNA
 <213> Glycine max

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<210> 19132
 <211> 375
 <212> DNA
 <213> Glycine max

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<210> 19134
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 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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<210> 19135
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[illegible]

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<223>      unsure at all n locations
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ccagaatgca caacatgtga gtgccatcac cttg	454

0400 19137

adattamenti degli edifici esistenti e alla loro manutenzione, all'edilizia residenziale pubblica e privata, all'edilizia scolastica, all'edilizia sanitaria, all'edilizia industriale e artigianale, all'edilizia commerciale e turistica, all'edilizia culturale e religiosa, all'edilizia sportiva e ricreativa, all'edilizia pubblica e privata, all'edilizia sociale e assistenziale, all'edilizia abitativa e di alloggio, all'edilizia di emergenza e temporanea, all'edilizia di recupero e riqualificazione, all'edilizia di nuova costruzione e ampliamento, all'edilizia di restauro e conservazione, all'edilizia di demolizione e smantellamento, all'edilizia di trasformazione e conversione, all'edilizia di adattamento e adeguamento, all'edilizia di integrazione e completamento, all'edilizia di sostituzione e rinnovamento, all'edilizia di ampliamento e estensione, all'edilizia di riduzione e contenimento, all'edilizia di eliminazione e distruzione, all'edilizia di creazione e costruzione, all'edilizia di ricostruzione e ristrutturazione, all'edilizia di manutenzione e riparazione, all'edilizia di gestione e amministrazione, all'edilizia di progettazione e pianificazione, all'edilizia di direzione e coordinamento, all'edilizia di controllo e sorveglianza, all'edilizia di valutazione e certificazione, all'edilizia di informazione e comunicazione, all'edilizia di formazione e aggiornamento, all'edilizia di ricerca e sviluppo, all'edilizia di innovazione e sperimentazione, all'edilizia di promozione e marketing, all'edilizia di distribuzione e commercializzazione, all'edilizia di importazione e esportazione, all'edilizia di trasporto e logistica, all'edilizia di stoccaggio e deposito, all'edilizia di trattamento e valorizzazione, all'edilizia di tutela e protezione, all'edilizia di sicurezza e difesa, all'edilizia di ordine e disciplina, all'edilizia di giustizia e legalità, all'edilizia di pace e cooperazione, all'edilizia di solidarietà e inclusione, all'edilizia di sostenibilità e responsabilità, all'edilizia di qualità e eccellenza, all'edilizia di efficienza e produttività, all'edilizia di competitività e crescita, all'edilizia di prosperità e benessere, all'edilizia di felicità e armonia, all'edilizia di salute e longevità, all'edilizia di bellezza e stile, all'edilizia di cultura e arte, all'edilizia di sport e divertimento, all'edilizia di lavoro e occupazione, all'edilizia di famiglia e comunità, all'edilizia di società e civiltà, all'edilizia di futuro e speranza.

60

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 <213> Glycine max
 <223> unsure at all n locations
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 <211> 388
 <212> DNA
 <213> Glycine max
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 tgggttctct agacaaaacc gaattgatgg tattaaactc aacattctct catttaaagg 180
 aaagaatgat ccggaggcct acttggagtg ggagatgaaa atagagcatg tttctcatg 240
 caacatctat gatgagagcc agaaggagaa gcttgcctcc accgagtttt ccgactatgc 300

tcttctgtgtgg tggacaagaac tacagaatga gagagcaaga aatgaagagc caatgggtga 360
 tacatggagc gagatgaaaa agatcatg 368

<110> 19141

agcttgcgaa atggaagcaa agaagtctat ctatgggggg cagaatcaat ctcatcaatt 60
 cagttctatc agctttacat atctttttac tatctttttt taagatccct aaaaaagtgg 120
 tgcgaaagat tctatcaatt cagagaaatt tcttttgggg aggtcatcat gagggcaaca 180
 agattccctg ggtgaagtgg gacacaattt gccttcttaa aaataaaggg ggcttaggga 240
 ttaagatct ctcaatttaa tgaggcttta ctgggcaaat ggggggtggga gctgactaat 300
 autcagaacc aaccttgggc aagaatctta ctctccagat atggtggcgg gaaggagtgg 360
 atctttggtg gaaagagcaa atcttctctt 390

<110> 19141
 <111> 275
 <112> DNA
 <113> Glycine max

<400> 19141

tacctgatg aggattgtcc atatgtctt aaaactggac tgatctttt gattccaaag 60
 ttccatggcc ttgtaagtga agaccacac aagcatctga aagaattcca tattgtctgc 120
 tccaccatga aaccaccaga tgtccaggag gatcacatat ttctgaaggg ctttctctcat 180
 tctttatagg gaagtggaaa ggattggcta tattaccttg ctccaaagtc catcaccagc 240
 tgggatgacc tcaagagagt attcttaaaa aaaaa 275

<110> 19142
 <111> 409
 <112> DNA
 <113> Glycine max

<400> 19142

taacacatgt tccatcttc aaatcaaatc agtcttaaga catagtcttc aaacactggg 60

ttgctccca ggaacacttc tttaatgtct tttagttgg atgtccttgt tatgacttac 120
 gcttcacttg tttcatcacc cataattctt ttcttctttg taagaaaata cttcatgaat 180
 ttatgtatg ttatgtatg ctctaatcc ttacaaaaag gaatgttacc tctgttgtt 240

ttttttgat tttctttga cgtacacac tttcttgaat tttttat 300

<210> 19143
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19143

tgataatcat tttctttgct tcataaaatg aacttggaag ctttccatgt tcaaattgat 60
 cttgcaagag ttacaaaatc attgcatgg ctttgtcatt catccacac atgcatttaa 120
 tatgatacaa tttcaacaaa aaagacaacc ttgaatattt tgaaccttca tacaagggtt 180
 gttctgcacc ttttggtaat tcataaaaat cttcggtctt attcctttct gagtgttttt 240
 tgaaccatat cttcatccct atcaacctct acattgaagc aatgggcact tcattcgtat 300
 gctgctatc aactctaaaa gcacattaa tcatatcttg gataggatnt ttaataatgt 360
 tgtcttgaac tacatttgta tgtgagacat ttcgagtttc ttcacttcta gactcccat 420
 ggtacaacca aaatgtgtac ccta 444

<210> 19144
 <211> 382
 <212> DNA
 <213> Glycine max
 <400> 19144

agcttggtta cctccttctt cactacatca agaatcactg ggttgagtct tctctatggc 60
 tgtcttattg gtttagcttc atcctctaaa ttatccgat gcatacatat ggtcggcta 120
 ataccaggaa tctccgtatg ggtccagcct atagccttct tatgtctctt gagaactaat 180
 aacaacttct cctcttcttc atcaccaaag gaggcadata taaatacgtt taaacttttt 240

ctatcatcca agtaagcata ttttaaattt gatggcagag gtttcaattc tgggtgtgggt 300
 ggctagatag tggtagaaaag agatgggtttc ttagcctgta cctcataaag aaagtcagag 360
 gtatgtgtac ttcctaaaaa ac 382

<223> ensure all n locations
 <400> 19145

tcatagggag tcatgctaatt ggtagagtga aaactattgt tataagtga ctttatcaac 60
 ggcagaaaaa tctaccaatt cctcttttctg tctaagacac acgcccctcaa aaggtctctc 120
 agtgactaaa tgggtcattc agtctgaggg tggtaggtcg aacttagcct aagcttagtt 180
 cccaaagctt tcttcagact cctccaaaat cttagagataa acctaggatc ctatcacaca 240
 catgctatat ggcacacct gtaatctgac aatctcaata ctatataggg aggtcaactt 300
 ctccaaggaa aatcttatat taatgggaat attgtgagca aacttggtca gtccatcaat 360
 aataacctag ataaaaatcta aacctctggg ggtcctaagt agtctaacca canaatccat 420
 ggaaatacta tcccacttcc ac 442

<210> 19146
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 19146

agcttgtagg gttaaagtct cagcattgtc acgtactcat gcaacaattg ttagccgtgg 60
 ctatacggaga catcttgcca aacaaaattca ggttaacgat aactcgccctg tgccttttct 120
 tccattctat atgtagcaaa gccattgac cagtcattgtt tgatgagtta gaaaatgagg 180
 ccgcaattat aatgtgtcag taggagatgt attttccccc tgccttcttt gacatcagta 240
 ttcacttgat tgtgcattctg gtcagagaaa tcaaatgttg tggctctgtt catctacggt 300
 ggatgtaccc gattgagoga tcatgaaga tcttaaaaagg gtatacaaaag aatctatata 360
 gtccaaaacc atctattttt caaac 385

<210> 19147
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 19147

tatagcaaaa aacattgtct tccaacactt tcaatactcc tccagatgca taagggtcca 240
 tgcattgtgg aactatatac caatatatca cccaataacc ataacacata ttgacttaca 300
 ggaagctgga taatatgggt catcatacac tgaacagaat tegttagcatt ggtaaaacca 360
 aaagaaacta ccaaccactc ataattggca tgaggggagca caaaggtga tcatgtcta 419

<210> 19148
 <211> 391
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 19148

agcttatggg ttgactcttg tatgcaggaa ggctggagag ctctcttat tctgagctgt 60
 tgtcccaaat tcattggggag atgacaaccg aagagctcgc aagacagttc tgcactctct 120
 tgggtcagtc ctatgagaac ccactgagtg tagcagttgc agcaggagtt gaggggttgc 180
 ctatactgtt aaagctggca aatgtaatgg cagcaaagaa gcaggagtgg caggaaatga 240
 agcagttgcc tgtgacagtt gaattgggta aggaatttca gttccattcg atttttgttt 300
 gccctgtgag tagggatcaa ggaagtgaag aanatctcc aatgctgcta ccattgcttc 360
 atgtcttttg caagcaatca attatgaagc t 391

<210> 19149
 <211> 392
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 19149

agcttctggt gggacatctt gacttgcctt ccaatctgac attcaaccaca gattctgctt 60

ttttttatcc ccacattggg aatgcctcta actgcaccc tgcgaatgat ttttttcag 120
 cctcttaagt gcagatgtcc aaatctttga tgcacatcc tgaattcacc ttttttggag 140
 atagacatc tggaggagta acgtgttctc tgaagtgtcc ataatagca ggtctctctt 240
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt

<210> 19150
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <401> 19150

tagagcaatc tgaactttcc aagtgatcac caaaggcttc tgcacacaa ttgacactct 60
 ccacccctctn tgccttaagc ttttgtgtg cattccctgc ttcctcctta taaatctcag 120
 atttattaga ggttgacagc gcacaatcaa gtgaatcatg atgtctctga ccagatgcac 180
 aatcaagtga atcatgatgt caaagaaaac aagggaacaa tacatctcta actagcacag 240
 tatcttgogg cctcatttcc agctcatcaa acttgacagg atcaatgact tttctacata 300
 taccatggaa gaaaaagcac aggtgagtta tggctaacc aaetntggtt ggcaagatgt 360
 ctogtatagc cagggttaac aattgttgca tgagcacgtg acaatcgtga gactntaacc 420
 ctacaagctt aagctccttg aactacacaa ggtctttaat atttgaagag t 471

<210> 19151
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <401> 19151

tattgaaint atctctatag agtgtacaac aacgagagag atcgactagc aaatcaagac 60
 aagcttcact gttggagaag gctcatgaac gtaatgctaa gctgtgtcta aatttgataa 120
 tagagatgaa aggttatgg gttaaaactg gccaatatat gtaaacaggt gcagatgtcc 180
 tttctgtctg ctatataagt ctttgaagc agttacagga ctctcttctt gctcaccctt 240

ggaagagttt ttcttcaatt ttttttattt taaaaatatt ctagtctatg ttatgggaaga 300
 aaaaatgctt ttaggaaaca atgtacatta tgtggctgta ataaaaagag cccacatat 360
 ttttgagga ttgtagatga ttgtgttca ttaacctact acaaatctc aaagtctt 420

<211> 19152
 <212> DNA
 <213> Glycine max

<400> 19152
 ajettatgac aattagaaat ttctgagagc ttccgatgat taattttgat cgtctcgata 60
 tattataagt ctgaatcgga cctacgtgtg aaaagttatg accatttgaa ttttttgaga 120
 gattccgttg tttgaatttc gagcgtctag atatattatg cgcctgaatt tgaattgctt 180
 gtgaaaggtt ataaccattt gaatttctca agagcttcctg ttattcaatt tctagcttct 240
 ctatatgtga tgcgcctaaa tggacatcc gggaaaaaag ttatgacctt ttgaaattct 300
 caaaagcttc ggtagttaaa ttctgagcat ctcgatatat tcttcgctg aatctgacct 360
 cctgtgtaaaa agttatgacc a 381

<210> 19153
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 19153
 tctactaa tttacaagag aaataggaat ctatcacaga tttagagagt ggaccggaaa 60
 ttatgagtg tatagataat aaaatctata aatattatac tctaataaat aagtttatta 120
 attacttacc acatattata gcttttttta attgacctata tgttattctc ttcttgacaa 180
 tagattacaa atcattgatg ataattgcta tctaccgatg agttaatttc gttatgacct 240
 tccactaca atcgcacaa cttattatac tagaaacaaa atgttacata aaattttata 300
 ttggtgtata atttataata gtcataatgc ctgaaaattt gaaatgaact tttaggacta 360
 ttataatata 370

tctccagcaa cagatacaac cctggatgga ggaatcacc c aatctcagat ggotagccct 300
 caacaacaac aacaacagcc tgcctcttcc tccaaaaatg ctgctgggccc aagcagacca 360
 tagattcttc taccattcca acaacacaaa cag 393

<210> 19159
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 19159
 agcttttggg atcaattacg agcgtctcga tatactacgg gacataatcg gacatgoggg 60
 taaaaagtta ttgttatttg aatttgcctc taggtctctt tttcaattac gatcgccctc 120
 atatattatg ggattcattc ggacatccga gtaaaaaatt attgcccatt gaatttgcta 180
 cgagcttccg atttcaatta cgagcgtctt gatataaac gaataaacaat ccgacatccg 240
 agtaaaaagt tattgtcgtt agaatacgcc tccagcttct gtttcaatca cgagcgtatt 300
 gatataattc gggactcaat ccgacatccg agtaaatagt tattgcccatt tgaatttgc 360
 catagcttct gttctcaatt ac 382

<210> 19160
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 19160
 ttcccttgcc ctgcatatct ttgagggact tatgggcatt atgaatgaca aattccttgg 60
 gataaaagca ggtttgcat gtattcaaaag ccgcgactaa agtatacaac tctttatcat 120
 aagtcgaata gttaaaagga ggaccactta cattttcaca taaaataagt cattagatgg 180
 ccttcttgca ttacacagct cccaatccca acatttgaag catcaaaact aattccaaaa 240
 gattcccgaa cagttggtaa ccccaaccat ggggcattcc tatcttttgc ttaagaaaat 300
 tgaagcttct tctttgtcta tcttccatt tgaaaaacaac atttctcttg accaccttat 360
 tgagaggtgc tgcattgtgc cta 383

<210> 19161
 <211> 333

<212> DNA
 <213> Glycine max

<400> 19161

ttctttgata taccaccacc ccagccaccg tcatcttaat ttctcttatt ttaattattg 60
 tttcttttct tttcttttct tttcttttct tttcttttct tttcttttct tttcttttct 120
 tttcttttct tttcttttct tttcttttct tttcttttct tttcttttct tttcttttct 180
 atgacattct atgaagtatt atctttctaa gattgatgaa tgacaagtta tttttttgat 240
 ttctttctat ttttttgtat aacatttatg tatgggtttt atattttctg cttttctaa 300
 ttgatgaat ggtaaaatta ttttggttaa ttg 393

<210> 19162
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 19162

tctatagaag gttcgttctt aatttctcta caattgcac accctctcaat gagctggtga 60
 agaagaatgt ggcatttacc tngggtgaaa aacaagagca agcctttgct ttgctcaaag 120
 aaaagcttac taaggcacct gttctagctt ttctgaactt ttctaaaact tttagcttag 180
 aatgtgatgc ctctggagtg ggagttggag ctgtattggt acaaggtggg caccctattg 240
 cttatttttag tgaaaaactt catagtgaca cctcctctac cccacctatg acaagagctt 300
 tatgctttaa taagagcctt ccagacatgg gaacattacc ttgtttccaa ggaatttgct 360
 attcatagtg atcatcaatc acttaagtac attagagggc atagcaagtt aaacaag 417

<210> 19163
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 19163

agctttggag ttccaaatg ccaactcgtt ttctttctta gttcagcctt ctcttgctt 60
 caattcttca gttgcttctt ctcttgctt caccatcttg ggaatgttcc agcctttgat 120

gacagcttct caggttctgc taccactga ttgaggaag gccaccatc ttgctttcca 180
 atattcatag ttgctttccat cgagaattgg tggctctgtc acggttcgc cttctttctc 240
 caggttcata agaattttat tccctagatc tcaatatgt atcccgagcg tgcctctgat 300

<210> 19164
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19164

tgaattcgaa aacggaagct ctaagaaaag tcaaacgaca atacctttta actcgtatgt 60
 ccgattcgagc tccctgtaata tatcgagagc ctcgaaattg aaaaacggaag ctctaagaag 120
 agtcaaaaga ccttaactct tgaactggat gtcgattga gtctcgtaat ataccgagac 180
 cctcgttaatt gaaaacaaac gctctgagta aattcatacg acaataaact ttcactcgga 240
 ttcccgattg agtgccatcg gatctcgaga cgcctgtaac gcacaaggaa gctctgcaca 300
 agtnaaaaga caataatttt taactcggat ctatgatgga gccctttaat atatcaagac 360
 gctcgaaatt gataacggaa gctctatgaa aagtcaaaag accataaact ctgactctga 420
 : 421

<210> 19165
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 19165

agcttcgacc cctcctcggg aaacctagtc cagaacttct ccttcggatc aaaatcacc 60
 tgccttaagct cccgaaaaat cgaagcctcc tcccaacag tgtacctgca caaattaaaa 120
 gttaaaaacc aaaaagcacc taaaattctc aataaaaatc aaaaacaaaa gctctagtgc 180
 ttcaatcagc ctatcccaa tgcagatta agcatcaact cataattctt atgccccctg 240
 aaaaactctt atccadttct ttcaactctc ctccaaaaaa aaaaaggttc cctccatctc 300
 ttctctatc caatccgagc tgccttcgtc ggggtaaaaa atcgagcctc tcaattatc 360

gataatatcg cacgtgatgt caccggctcc acc

393

<210> 19166

<211> 243

<212> DNA

<213> Glycine max

<400> 19166

atgagagagc cttgggagga cctgggagga cttgggagga cttgggagga cttgggagga

catgatactg taactatcat gcaactaaaa cgaactctatt aaagggttaa gactacgcta 120

ctgcataatgt gatctgagat gagatctacc atttatacct gcggaaagga catacacaat 180

ttatgcacct tatcaattat gacgtactca ttacctacct ctgaattgaa ggtgatacat 240

gac 243

<210> 19167

<211> 364

<212> DNA

<213> Glycine max

<400> 19167

agcttcaaca tcaagaccact tccaggggtgc tggaaactact tcacatggac ttgatggggc 60

ctatgcaagc tgaaagcctt ggaggaaaaga tgtatgcta tgttgttgtg gatgattctt 120

ccagagttac ctggtctatc ttatcagag agaaatcaga cacttttgaa gtattcaaag 180

agttgagtct aagacttcaa agagaaaaag actggtctat caagagaatt aggagtgacc 240

atggcataga gtttgaaaac ggcaagttta tcatctctgc acattgaacg catcactcat 300

gagttctctg caaccatcac accacctcaa aatggcatag ttgaaaggaa aaacaggact 360

ttgc 364

<210> 19168

<211> 376

<212> DNA

<213> Glycine max

<400> 19168

agctttatct tcaagaaat cgtgtgatt tttttctct cggcgagac atttttctta 60

agaaaatctc gattagtga catggttgc gtttcaagcc gacgggaacg ggtgacaacc 120

agaggattac ttcggtcctg atggaggcta ttaggggctt aatcgaaactg tcttgtcatg 180
 gctgtaccgc ggtaaataaa agattctctt ctgaagattc gaatcctact gatgaactta 240
 ttcggttgag tatgatgga atataaagc cggatagctt ggcatacacc gattgttgta 300

<210> 19169
 <211> 416
 <212> DNA
 <213> Glycine max

<230> insure at all n locations
 <400> 19169

tgaaaaaaac ccttcggttc aggggatttt cttcctgcac cagctatttt tcttctagat 60
 ccaacagtga gagagaaatt tcaaaaacac ctttccttaa gacggatctg taatgggtctt 120
 atggaatgtc aatcggtttg tctatacata atttttaaaa atgtatttta caaattaatt 180
 taaaattaat agtctatgta gaattcgaac ctatgacttt aaggttatta acacaacact 240
 ctaatgccaa taagccaatt atattataaa ataattacat tgrtttatgt aacactaaaa 300
 tttctaattg atatttaatt cacatgtaag tntatataat aatttttgtg ataattttga 360
 tctcataatt aattttttta catatataaa tttttattaa acgtataatt tttatt 416

<210> 19170
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 19170

agcttgtgca ttaaatatcc tgatgaggtt gttccatatg ttctaaagac tagactaata 60
 catttgcctg caagatttca tggctcttga ggtgaagatc ctcataagca tcttaaggag 120
 ttccatattg ttgttccac catgaagccc cctgatgtcc aagaagatca tatctttcta 180
 aaggtcttcc ctctctctct ggagggagtg acaaaagatt ggcataacta ccttgccttc 240
 aggtccattt taagctggga tgaccttaag aggggtgtct ggagaaattc cccctgcctc 300
 taggaccact ggcatacaga aagatatctc aggcatacgg caacttaagt gagagagctt 360

gtatgagtagc tgggaaagat tcaag

385

<210> 19171
<211> 371
<212> DNA
<213> Glycine max

acatctcgag agctctgaaa ttgaatgttg aacttttgag ctaattcaaa cgacaataaa 120
attttctctcg gatgtctggt ttgagtcctgt agcatatcga gacgctcgaa attgaatggt 180
gaactcttta gtaattcaaa acgacaataa cttttttcac ggatgtctga tagagtcctgt 240
taacatctcg agacgctcga aattgaatgt tgaagcttca gccaatcaaa acgacaataa 300
ctttttctctc agatgtctga ttgagtcctgt taacatctcg agacgctcga aattgaatgt 360
tgaagctctg a - 371

<210> 19172
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19172

ttaaacttca atttcgagcg tctcgatata ttacaggact caatcaaaca tccgagaaaa 60
aagttactgt cgtttgaatc tgctcagagg ttaaacttca aatttcgagc gcttcgatat 120
gttaaggggac tcaatcagag atccaagtaa aaagttattg tggtttgaat tgtcttagag 180
cttcaacatt caatttcgag cgtctcgata tgttacggga ctcaatgaga ccttcgagta 240
aaaagttatt gtcgtttgaa ttggctcaga gcnttaacac ccaatttcga ggcgtctcgt 300
tatgacggga ctcaatcaga ccttcgagta aaaagttatt gtcgtttgaa ttggctcaga 360
gcttcaacat tcaatttcga ggcgtctcgat atattactgg actcaatcag acatccgaga 420
aaaag 426

<210> 19173
<211> 413
<212> DNA
<213> Glycine max

aggcaataga tctaatatc tgggaagcca tagaaatagg gccttatata cccaccacag 180
tagaaagagt ttcaatagat ggtagtccat caagtgaag cataaccata gaaaaaccta 240
gagatagatg gtctgaagag gatagaaaac gactacacac aacctaaaaag ccaaacacata 300
cctctctctc cctctctctc cctctctctc cctctctctc cctctctctc cctctctctc

<211> 1917
<212> DNA
<213> Glycine max
<400> 19176

agcttaacta ttatgggatt ttccaccca tccattctat agtccatttc accattagcc 60
tccaccaaca acctccaaca ctaggctgaa gaccttctta gcacccccaa cttaagtgcc 120
tactcacatg caacaccatt catthaatga tgtatgctat gatcattcaa ataaaaatca 180
ttgtatcaca ctattaacat attcattcac catcatcaat ataattcatt tcatcaacag 240
ctcaatccat tatatattaa ttcaattcat catacatatc gccattcaac atacaattta 300
gcattccatg gttgttcaat tccacatcaa ttcattcttc atatcattct caccatccat 360
gaactctcaa atagtccatc tacacctcat ga 392

<210> 19177
<211> 404
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19177

tcaagaataa tggacttagc acacttctta ttctataag gaaattcaat caatagacct 60
ccaatcttta atggagaggg ttaccactac tggaaaaccc gaatgcaaat ttttattgag 120
gcaatacact taaatatttg gcaagtcata aaaatagggc cttatatacc caccacagtt 180
gaaagaacca caatatatgg aagcacaaca agtgggaagca caacaataga aaaacctaca 240
gatagatggg ctgaagagga taaaagagca gccactataa tttaaaagcc aaaacataat 300
tacatttgac ctgngaattg atgaatatct caaggtttca aattataaga gtgctaagga 360
aacgtgggac acctacatg taacacatga aggcacaaca gatg 404

canaatatca ttttcaaatt ctcccccatg attacttcta attgaagaga tacatgataa 360
 tgaactattga attactccaa aacaaataaa actaggaat ttigcaatac a 411

<210> 19184
 <211> 413
 <212> DNA
 <213> Glycine max

tatgttcaac attcaatttt gaggtctcag atatataaag agactcaatc agacatcga 60
 gtaaaaaagt attgttgttt taattggctc agaggttcaa cattaaattt cgagcgtctc 120
 gctatattac gggactcaat cagacatcag agtaaaaaag tattgtcagg tgaatttggc 180
 cagagcttca acattcaatt ttgagcgtct cgatatatga cgagactcaa tcagacatcc 240
 gagtaaaaag taattgtcag tcgcatttgc tcagaggtct accttcaatt tcagcgtctc 300
 gatagttaa gagactcaat cagacatcct agtaagaagc tattgtctgt tgaatttggc 360
 cagagattca acat 374

<210> 19184
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19184

tatgttgcac acatctacaa cagacctcct caacctcttc agcaaaaaaa accacaacag 60
 aacaattatg acctctccag caacaggtac aatcccggtt ggaggaatca tcccaacctt 120
 agatggttga atccttcacg acagttagca caacaacctt attttcaaaa tgttgttggc 180
 ccaagcagac catacgttcc tccaccaatc cagctgcaac aacagcaaca gccccagaaa 240
 cagcaaacag ttgaggcccc ttgcacccc tcactcgaag aacttccagg caaatgacta 300
 tgcataaat gcagtttcaa caagagacca gagctctcat tcagagctta accaatcaga 360
 tgggacaatt ggtacacag ttacatcaac aacagtctta caattctgac aga 413

<210> 19185
 <211> 391
 <212> DNA

<213> Glycine max

<400> 19185

agcttagtgt tgcaataatt taatataatt tactttatgt tacttagtat ttcttaacta 60

ttctttatgt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120

taaaatatta taaaatatta taaaatatta taaaatatta taaaatatta taaaatatta 180

atgaatttaa ttgtcttttc ttatcataag gtcttgacat gtttggttga cttaacaggt 240

ttcttaacta aaggtgagtt t 300

<210> 19186

<211> 287

<212> DNA

<213> Glycine max

<400> 19186

ttagagctcg aatatgcctt ataatgagtc tgattacaat togatgtgcg acagaactcg 60

acgtagggat tgataatacc ctggagctgc ccatcttagt aggettgaag gagatcctcg 120

ttagcacagc tgacgtgata gogaataacc tagcaaggat cagaacttgc atttgatgtg 180

caagctgtat tgogaatggc tcttgaagcg gaatttaate ctttaagtata tgtcccgcca 240

atcacaccgc catggtgcct tctctatata acttgcaactg atgctgc 287

<210> 19187

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19187

tgaagganaa ctgcatgctt tggtaacct agtaactcag ctggtcatga atcagaaatc 60

tacacatgtt ccaagagttt ggtttttatg ttctcttaca gatcaccata cagatctttg 120

ttcttttttt cagcaatttg gagtcaatga gcaacctgaa gcttatgttg caaacattta 180

taatacactc cctcagcagc aaaaccagca acaacagaat taattaagac tttcaagaaa 240

tacatacaat ccagggttga ggaatcctcc aaatcaagat ggacaagttc taacacaaac 300

aacagtctgt cctttctttn tagaatgctg ctgggtccaag caagccatat gttcctctct 360
 caatgcagca acagcagcag cagtcacaac aaagccaaca agcaacta 408

agcttcacatt gtccaatttc gagtgctctg ctatattatg cgcctgaatc ggacctccga 60
 atgacaatgt atgaccatct gaactctctg agagctacca tccatcaatt tccgcgcctct 120
 agaatatta tccgcctgaa tccgaacctc gagggaagaa atatgacctt gggaattctct 180
 ccagagcttc ccatgttcaa tctcgaacgg ctatgcttat catgcgagag tatgc 235

<210> 19189
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 19189
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 tgcctgccaa gtttcatggt cttgcagggt aagatctctc taagcatatt aacgagttcc 120
 atattatttg ttccaccatg aagcccttga tgtgcaagaa gatcatactt ttctaaaggc 180
 tattctctcat tctttggagg gaggggcaaa agactggcta tactaccatg ctcccaggtc 240
 cattttcagc tacgggtgacc ttaagagggg cgccttgcaj aaattctcga gacaaatgac 300
 catacagaat atgcaatttc agcaagagac aagagtctcc attcagagtc tgacaaatca 360
 gatggggcag atggctactc agttgaacca agctcagtcg cataattctg acaaatcg 418

<210> 19190
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 19190
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 aactcaaac aaagcctaac cgtgtttgca cccactgata atgcattctc aaagctcaaa 120

gcaggaacat taaactccat aaactcacia gaccaaatgc agctgatata attccacatt 180
 ctcccacactc tctacaccat ctcacagttc caaacccgcaa gtaaccccctt gcacacgcaa 240
 gctgggaaca g'gatgagtg agagatcctt ttaaatctda ccaactgaag ccaaccaagt 300

ctaggc

<210> 19191
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19191

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 taaaaaatg ttttcccag aacaagtaca cgtaaattat aacaaatgaa caaacaaaaa 120
 agcatacttt cattttctcc tatcaaatit atcctgagaa aacaaacaaa agtgagtcac 180
 ttacagggaa caaattcttc cagaactgaa gatcagtcctt aggaggctca actatcttgg 240
 tggcccaaca gaacaacatt atgagagagc cacatgcaag ggagagagtt gaggttaagcc 300
 aagggtatgg gaatgcattc agcaccttct tgttataaat gttgaacacc acattcagtg 360
 cccaccatgt tgcnaagtat atcccaatct tcaccttctt a 401

<210> 19192
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19192

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 aagattaatc ttattagtaa tatataacta ttattaatct aaaaaaaaaat taacataaaa 120
 gaaaatcaaa cttaaatgtt tigttaaaa aataattctc ctacatataa atacaattta 180
 caccactata tcaatccat aaactaatit tcaatttdaa ttggaattta cacaataaag 240
 ttgttcaat tgttgtaaga taatatctta ttatattttt ttagattagt ataaaattga 300

ttaaataata tccatattata ttagtcataa taggacaatt cttaaattga ttaattagtt 360
 aatctgattt agaatagctc aattgcattc ggtgaaacat acttgatgat cagaaagaac 420
 aggttcaggt ttaagctc taaacatgg nttatatata cctat 485

<210> DNA
 <211> Glycine max

<223> unsure at all n locations
 <400> 19193

cgttcacaaa cgtcttcgtt cggctccgct ctgttttctt tcaccgagtc ggacgaagga 60
 gacggagttg gcggcggcgg cggcgggat ggatgggaca acggtgacgg cggagggctc 120
 gggtttggg attogaataa tgggaatgat agcacggact tgtattaccg gacgatgatt 180
 gaagcgaatc caggggaacc cctgtttctt ggcaactacg cgaggtactt gaaagaggta 240
 cgtgaattga agctatttag ttattacttt tagattaaag cgtgtagatg gatgagggtga 300
 tagagttgtt tatttgatgg caggttcgag gggactatgt gaaagcggag gagtattgtg 360
 ggagagcgat tttggcgaat ccgaatgat ggaagggtgct atcgatgtat gcagatttga 420
 tatgggagag ccagaaagat gcttcgcgtg ctgagactta ttttgatcaa gcgntanna 480
 gcagctccga tgaactggtaa ctaacatcaa actcttgggt ggttctcttt atg 533

<210> 19194
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19194

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 gttttgctca aagaaaagct tactaaggca cctgttctag ctcttctga cttttctaaa 120
 acttttgagc tagaatgtga tgctctaga gtgggagttg gagetgtatt gttacaaggt 180
 gggcacccta ttgcttattt tagtgaaaaa ctccatagtg ccaccctcaa ctaccctacc 240
 tatgataaag atctttatgc ctttaataga gccctccaaa cttgggaaca ttaccttgtt 300
 tccaaggaat ttgtcattca tagtgatcat caatcactta agtacattag agggcanagc 360

aagttaaaac agaggcatgc aaaatgggta gagtacctac accaatctcc atagggttato 420
 acatacaaaa agggacaaca aatgtggtag ctgatgggtc tct 443

gacattcatg gtgctccgaa caaaggtgga gtatggagga ttgccttgag ggtccggaat 40
 taggcaatca tgaaactcag ctccaaactc aaaagtggag gacacatgaa caacccctaag 120
 caataacatt catgtgtctc cggaaaagga cgagaatgga ggattgcctt gaggggtcctc 180
 tottaagcaa tcatggaata cagctccaaa ctgaaaaatg gaggacaagt gaatgacaat 240
 gcaattcaat cactgggtc cagaaaagga tgagaatgga ggattgcctt gaggggtcctc 300
 tottaagcaa tcatggaaca caactccaga ctccaaaagt gagaaacacat gaacagccct 360
 aagcaataac attcatgttg ctccagaaaa gcatgagaat ggaggattgc cttgaggggtc 420
 ctctottaag caatcatgga acacagctcc agactcaaaa gtggagaaca catgaacaga 480
 cctaagcaat aacattcatg 500

<210> 19196
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 19196
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 catgtgcata aatgtaactg atgaataaaa cagagaatgt atgccaatga tataagcaat 120
 agtttaaatg gtatttaatc tgatgtgaaa gccatacaaa caaaccttaa cagcaccatc 180
 atagtctgtg gaggcaagat agttctggat gtatgtattc caacaaacac aactgagcct 240
 tgatctgttt gacatctcaa ctacaggata atggatgtca atggaatcat tgaaaagtgc 300
 attgaactca aatattttta tttcttttga tatccagaca gcagcaaaagt aatcttctat 360
 ccatcaaaaa ctacagagagc atattacatt tgcaggatta 420

23) none at all in locations

[illegible]

```
<223>      unsure at all n locations
<400>      19193
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tataacccgt	caactaacct	aagaaaaagc	tgaggaagaa	gaaccaggtg	aaaccaacct	180
aactccacca	caacaacaag	atcaagaact	atcatcacca	gagctctact	caagaacgagt	240
aagatctttg	gtggacatat	atgaaacctg	taacttggcc	atacttaaac	ctgggaagctn	300
tgaagaagcg	ttaaagcagg	aagtatgggt	caaggcaatg	gaagaagaga	tacagatgat	360
cgagaaaaac	aacacatggg	agttagttaa	tcttccccat	caaaaaagata	tcattggggg	420
taactgggtc	tataaagacn	agctcaaccc	tgatggcacc	ataca		465

CH 1

<223> unsure at all n locations
 <400> 19201

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 ggaatcacc aaatattctt cctcactga tagaatcacc agatggcctt caactacaa 120
 tttggtttt ttttctttt ttttctttt ttttctttt ttttctttt ttttctttt 180
 ttttctttt ttttctttt ttttctttt ttttctttt ttttctttt ttttctttt 240
 agggatata tttactgga gataatctc tggcctaacc tctcggggg tuccgttcaa 300
 ggcagaacc acaatggaac ttggctttaa gtyggaggca ttgaatggta attcttcaa 360
 agtgatctta ggaatcagc ttaaactgga accattatcg atgagcactt tggctacgat 420
 atgggtccata caattgactg atactgcan agccttatta tgcctt 466

<210> 19202
 <211> 511
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19202

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 gatgatttct ccagatttac ctgngtcaac tttatcagag agaaatcaca aacctttgaa 120
 gtattcaagg agttgagttt aagacttcaa agagaaaagg actgtgtcat caagagaate 180
 aggagtgaac atggcagaga gtttgaaaac agcaggttca ctgaattctg cacatctgaa 240
 ggcatactc atgagttctc tgcagccatt acaccacaac agaatggcat agttgaaagg 300
 aaaaacagga ctttgcaaga ggctgctagg gtcattgttc atgcaaaaaga acttccctat 360
 aatctctggg ctgaagccat gaacacagca tgctacatcc acaacagagt cacacttaga 420
 agagucactt caaccacact gtatgaaatc tggaagggan gaagccactg ttagcacttc 480
 acatctttga agtcatgtac a 501

<210> 19203
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 19203

ttgcttatcc tatgcttctt tggccgtcgt tgcattagat atcttctcaa atgtatcttc 60
 atccaccgat tgataaatga gaaagagagc tttcttgtct ctctttcttg actcttcaa 120
 cgtctcttta acacattgac tttagcgagc ttcattctgc tcttcgaagc cattctctac 180
 ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct
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 atcttgagagc tctctctctc atctctctc aa'acagctt tttatgttta gaaacacat 240
 ctctctctct tgggtctctt gaatctctct tggatag 300

<210> 19204
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <403> 19204

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 ctctgcccct ctgttcagca atcttgagca attgaacagc cttaagctta tgttgcaaac 120
 atctacaata gacctctca acctagcag caaaatcaac cacagcagaa caattatgac 180
 ctctccagca acagatacaa tctcggtatg aggaatcaac ctaatctcaa atggctctagc 240
 ctctcaacaa aacaacagca gctgtctct tcttccaaa atgtgtctg tccaagtaga 300
 ctctacattt ctctctcagt gcaacaacaa caacaacatc aacagagaca acaatccact 360
 actgagggac ctctctcaac ttcatgggaa gaattagtga ggcacatgac aatatagaac 420
 at 482

<210> 19205
 <211> 541
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <403> 19205

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 agagcttagc tacaagtacc tctctaatag ctaagctcac ctcttgaga tgagaagcta 120
 gaacttagct acacaccccc tataatagct aagctcacc ctctctctctt aaaacatgaa 180

agttgtcttt aactcttcaa aagccttgga agatgactct atccaag

407

<210> 19209

<211> 399

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tttataactgt cagcttcata cagaataaat atgaacataa atctgttaga tagaaataaa 120
tgtgaaatat atatatctttt ttaaaaaaag aactaaccat cgcgaatagtg tctttctacat 180
cctctcttctt tctgctctgac agacgctttt ttaaggattc aagtgcactct ctaagcttct 240
tcaaaaagaac atgttttttc aatgatgctg cctctcttaag tctagcttaa acttcaccag 300
cttcaaaaaa gctagttaaa acaggaacat caatctatta gtaaaactatg aatataatca 360
tgggttattt cagtgcaaaa ccatttcaaa taagaatct 399

<210> 19209

<211> 501

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19209

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agtcacatgca tggacataa tagtacaacc atacttgacc cattgctccc tatggccttt 120
catcaaatctt ccagtatatt caacttcttt ctccaagagt ggaactctga tgtcatgata 180
gctaggaatg ggcaaatgtg gcccatattg accaatgggt gcaaccatgt tctcaaagct 240
ttccaattta atgaggttga atgacaaacc tgcttggtac caaaagcgag caatatgttg 300
atgcaccttc aatacttcac tcttctccac tgaactcttt atgttccattt gcttcagcat 360
ctccattttt ctccgathga ttgcatttct tggattctta cagaatntgt ccattggctc 420
ttcttttagtc ccacactttg tctttgcact tgcagcagca tacaagagt ccgcacactc 480
atcttctca cttccatcac a 501

<210> 19210

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 aagctcacet ccttgagatg agaagctaga gcttagctac acacccccccta taatagctaa 180
 gctcaccccc atgacaaaaa acatgaaaat aaaaaaaagt ccttattaca aagacaactc 240
 ccttattaca aagacaactc ccttattaca aagacaactc ccttattaca aagacaactc 300
 ccttattaca aagacaactc ccttattaca aagacaactc ccttattaca aagacaactc 360
 ccttattaca aagacaactc ccttattaca aagacaactc ccttattaca aagacaactc 420
 ccttattaca aagacaactc ccttattaca aagacaactc ccttattaca aagacaactc 480

<210> 19213
 <211> 527
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19213

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 taacatgctt ctcaccatgt tcatgatagt tetgttccct ctttcagcca ccccatgtgt 120
 ttgggggtgta taaggagtag gtacttcatg aagcatccct tcatcacaat tatttttgaa 180
 agtcatgtga agtatattca gctccacatc tgtccttacc accttaatta cctttccact 240
 ttgtttttca cacatcaatt tagacttctt aaaaacaaac aacaattcac tttttctttt 300
 taatagataa atctacatca tcttggatg ttcacaatg aaggatacga agtacctgtt 360
 acctccaaga gactggatct canagggctc acacacatct tatttgatag tgagagtgag 420
 agagacattt tagagagaan aactgatata atttcattct aaaaagttag ttacaaagag 480
 gtatatatag acctctaaac ctctgaacta agcanacaga aacaacc 527

<210> 19214
 <211> 497
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19214

acggcccaat aagcaagggt ctcactctcc actggaaggt ggcattgcct accaaaaacc 60
 atctataaag gagaatctc caaagggtt tggtaaggcc tcttggagag ccaataaaca 120

aatctcccat gcttctttgg atgtggttgc atttgacacc aactcc

406

<210> 19317

<211> 475

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19317

atctctat agtctttg atctagaaat tgaagaaada caattcttaa tctctttac
aiaaaaaaaa gctgctggatt cagtgcacg ggttgaata agagctgggt gtcattatgt 120
taataaaaaag tctctctgggg gtatgttaac gaattggtat actacagaaa caagacttca 180
aagcttcagg gacttgagaa tgcaacaaaa gacggngaga ctcaatagtt ttccaaaaag 240
agatgcctgt atattgaa-ga gacatttagc tcatttggaa acatatcttg gctgcattaa 300
atatatgacg gctgtacctg atattgtaat aatctctgat caacaagaag aatatacggc 360
tcttcagaaa tctataactn tggaaattcc aacaatttgt ttaat 406

<210> 19318

<211> 475

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19318

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tcattgttatg atctctatca tcttaggtct tccggtctct tcattctggt tatgttcttc 180
atgttagcatt cagactgaat gactctatga aattacgtcg ctacttccac atggtaaggg 240
taacgttagga gacatctcta tttttcccg ggggaatctt tagaattacc acagctttagc 300
tntcaattcg cctctgacca tcaaatgaaa tctgaataac ccttctctcc ctctntgaaa 360
ctntgaaaca aaggggtgctt ccggttctgt cgggtcttga aacaattnta gtcttctcat 420
attactatat ctctgagagtc acataattta tatgaggaac tactgaactc aatca 475

<210> 19319

<211> 525

<212> DNA

<113> Glycine max

<123> unsure at all n locations

<400> 19219

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aaggagggg aggaaaaaa ataccataat ctactgataa taataaaaaa atgctttaa 1

aatgccaag gggttcact agctgttoga accttaggaa gttctctgtt cttgaatttt 300

gatttagaaa gatgggaatt tgtaagagac catgagatct ggaacttaaa ccaaaagaaa 360

gatgacattt taactgcctt taagttgagc tatgatcaaa tgccatctta ttganganag 420

tgtctctgtt atttttcctt ctttttccaa ggatttggcc acattgggtt ccaattttgt 480

agtctttgcn gatcatttgg attacttoga tcttctcttg gaagt 525

<110> 19220

<111> 510

<112> DNA

<113> Glycine max

<123> unsure at all n locations

<400> 19220

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agtagcatcc atagcaactc cttcacctga aactatatgt cctaagtact ctatctccaa 120

tacaccaaaa gagcatttag acaacttagt aaacaaaaaa ttttctttca acactttcaa 180

tacagcttca agatggcata agtggttcctg ccattgtggaa ctatatacca atatctcctc 240

aaaaaacact aacacatatt tccttaaagg atgttggaaa atatggttca tcaaacactg 300

aaaagaagtc ggagcattgg ttaaaccaaa tggcattacc aaccactcat aatggccatg 360

gtgagttcaa aaggctgggt tatgtctatc ctcaagtttg actagtatct ggtgatagcc 420

cgaccttata tccaghttag aacaatactt tgcaccaaat agttcatcta acagcttgggt 480

catagttagc acagggaaac tatcttttac 510

<110> 19221

<111> 404

<112> DNA

aacacctaca canaatggng tagttgaaag gaaaaataga actttgcaag aaatggtagg 120
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 tgcctatgttc aaaatagaat atggtaagac attgattaaa aagactccct atgaactgtg 240
 aatgctatgctc atgctgctc atgctgctc atgctgctc atgctgctc atgctgctc
 atgctgctc atgctgctc atgctgctc atgctgctc atgctgctc atgctgctc
 atgctgctc atgctgctc atgctgctc atgctgctc atgctgctc atgctgctc

<210> 19124
 <211> 422
 <212> DNA
 <213> Glycine max
 <23> unsure at all n locations
 <400> 19124

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 acgaaataat gagactgaga ttgccaaact taaaggagag atgataagag agttcgaaat 120
 gactgatttg gaacttattt cttattttct tgggaattgaa ttcaagagaa ctaatggggg 180
 agtgatcatg aatcaaggga ggtatgaaag agatgtactg aagaagttca gaatggttga 240
 ctgcaattnt gcagacacac ccactgccac tgggtgtgaac ttgggtgaaag atccctaatga 300
 agaagaagta gatgtaacat tgtatagaca aatgggtgggc tcactgaggt atctnctgtg 360
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 ccacaataac tatgaccgga tgaagaatgc gcaatgatta tctgaagcta ataaagcta 180
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<310> 19226
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 <312> DNA
 <313> Glycine max

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 <412> DNA
 <413> Glycine max

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 ttgtaaacat tatcttggtt attttttatg aggacacatg tattttatac ggaagaaaaat 180
 attgtgagtt acataaaaaa ttattattat aagagataaa agttttctctt tgaatattta 240
 gcatataaat gtacactcaa agctcaaatt tggaaacaca tatgaattta gactagtcac 300
 gagtaaatta atttatacat tccatgttaa aacaaattat catcataata tgaattattt 360
 aatttcatat tataaatata ttaaatacta ttgcacgact tacccttgaa ctaattttta 420
 cagattaacc g 431

<210> 19228
 <211> 415
 <212> DNA
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<400> 19228
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acaagtcctg cacaacaaca tcagcatgtc cctccttcc agaatgttgg aggtccaatc 180
aagccatatg ttctctctcc aatacagcaa cagtgcacaac aaagacaaca tgcaactgaa 240
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<210> 19129
<211> 141
<212> DNA
<213> Glycine max

<400> 19129

acaagcactg ccgcagtggt acaagacagt taatgagttt atgagcgact cagcattcac 60
aagatgtgac atggaccatt gctgctatgt taaaaaatat actaatagtt atgttatccc 120
ttgtgcgtat gctgatgaca tg 142

<210> 19230
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
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atgagttatg tcaccgaatc ggacatctgt gtgaagagtt atgaccattc gaatttctcg 180
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ctcgatatat tatgtccccc aatcggacat ttgtgtgaaa agttatgacc attgaaattt 360
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atcccagtga aatgttatga 440

<210> 19231
<211> 240
<212> DNA
<213> Glycine max

taaaatgtta ttg

433

<210> 19234

<211> 249

<212> DNA

<213> Glycine max

<220> unsure at all n locations

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tttttactca gatgtctgat ttggtaccgt aatattgtga gacgttcaaa attgaatact 130

gaaggtctga ggtttgggtt ggtttgggtt ggtttgggtt ggtttgggtt ggtttgggtt ggtttgggtt ggtttgggtt ggtttgggtt ggtttgggtt 240

taatatatc 249

<210> 19235

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19235

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gagagggaga gaatagcaca aaattttgtg ctctaaatga gctttgaaat ctgaagttta 120

atattcaaat ggtcaaagtt aaaaaaaatg cacacacatg acctctattt atagcctaag 180

tggtcacaca aattggagag aaattcgaat ttcaattcaa atttcacttg aatttgaaat 240

tgaatttgtg gagacaaact tcggagccaa aatttcaact attatgatta gtgaattnta 300

gttatgggtc agcccactaa tccaagatca atctcaagat tctccattaa gcgtgcttan 360

gtgtcatgac gcatgtaaag catgaacgac atg 393

<210> 19236

<211> 427

<212> DNA

<213> Glycine max

<400> 19236

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ttgctggagt taacaatgtt ggttgaatt tcgcttgaaa gcaccttttc tctaacaaaag 120

tgcacagttga tctttctatg cctttgatct tttcatgtgt ttgtctccca attttagttg 180
 ttggagtagt tgcctaagtt ccataagctc acatgtgact attgcatag aacaaaatcc 240
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4000

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 <213> Glycine max

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 ctgaaaaag ccgctcatta acacaccaca actatggttg ttggcaacca aacccaacct 180
 atccatcgtg caaaacaact tctttgccag cctaacatct gcactcttgc aacaccata 240
 aatcaacgta ggttatataa caacattcag agagaaacca aactcttnca acatggccaa 300
 aagcggaaa cctttcatca agtcaccaga ttcacaacga cctttgatca taatccaaa 360
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 gaaacaattc 430

<210> 19238
 <211> 435
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 19238

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 ctgcttaca taagttgaat agttaaggt ugaaccactt aactttcac taaaataagg 180
 aattgga'gg ccttcttcca tcaacacagc cccaatccca aactttgaag catcacactc 240

aatttcaaaa gatttttgaa agattggcaa cgcaagtatg ggggcattac ttagcttttg 300
 cttagaagaa ttgaaagctt cttattgttt gtctcgccat atgagaccaa cattcttgtt 360
 ggcacttca tttagagggtg cctgcaatgt gctgaatcc ttcaaggatc ggcataaata 420

<211> 312
 <212> DNA
 <213> Glycine max
 <400> 19239

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 tggctatggc aatagacaaat ggaatcttca aatgtcacct tatatatctg cacagtgtaa 180
 ggcacattcat attacaaatc ttattacaac tgctcgggaa aacatgggtct gtctggggag 240
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 aattggatga ac 312

<210> 19240
 <211> 271
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 <213> Glycine max
 <223> unsure at all n locations
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 ttagtgggtgc tatgaacaac tctattgtaa gcaaattcaa catgggggtaa acaagctctc 180
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<210> 19241
 <211> 427
 <212> DNA
 <213> Glycine max

347

<222> 303

500 2000

...and the β values are

1. $\mathcal{A} = \{A_1, A_2, \dots, A_n\}$ is a family of subsets of X .

120

100

243

305

363

<211> 437

< 12 > DNA

<213> Glycine max

60

120

180

240

300

360

420

45.]

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DNA

Glycine max

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-010>      10250
-011>      400
-012>      DNA
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actccacgag	tctctccatt	ctatacttca	tattccactgg	gataaaatga	gcagatttgg	180
tcagtcgata	tactatgacc	cacacagcat	catgtccacg	actagtccttg	ggtaaaactag	240
atacaaaatc	catagatatg	ctctcccatt	tccattccgg	aatctccaat	ggcttcaatt	300
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atttcgctac	atctttcttc	atgcccattgc	acaaaaaact	tctctttcaaa	tcttggtaca	420

caacattatg atgaaggaaa tgtgtgagga ttccaaaac caacaccata atttcaagcc 240
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<100> 19252
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 tctccagca agaacacagt atccttaagt gcatcttgtg tctaagggtg acctttccca 360
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<210> 19253
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 <223> unsure at all n locations
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aaatgagcta tgaaatctga agtttaatat tcaaagatc aaagttgata aaaatgcaca 120

cacaatgcct ctatttatag cctaagtgtc acacaaaatt ggagagaaat tagaatttct 180

attgaaaaat caattcaatt tgggaagcca aactctgga ccaaaaattc tcaattatc 240

atgagatc caattcaatt tgggaagcca aactctgga ccaaaaattc tcaattatc 300

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<210> 19257

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19257

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ctgggcgtat tccttgaatg actcatgtct ttttttacac atgttttgta gttgcgttct 180

atccggagcc gtatcataat tgtactgata ttgcctaacg aaggcaacca ttaagtcctt 240

ccaagaatag actcgggaag gctccaagtt agtgtcatac cctaattttg ctgcggatta 300

taacttgcca catgcaacct ttgattgggc gtttcaagat acttgcgcac ctttgttgca 360

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<210> 19258

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

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gtacctttat attgataaat ttaattttcc caactctaaa ccccggtat ttaattctct 180

ttattcttaa gatttcatta ttttttttaa agctattata tccataaatt gtttaattcca 240

togataactaa ttctgatctta cttatataaaa atctcgattt aagctgogaa agaaaaaaat 300
 aacatgtaat cgagagacaa gattctctag aagcgattag tcacttatac aaagatcaat 360
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<210>
 <211>
 <212>
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<223> unsure at all n locations
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 tctatagccag ggccaatata agtattctaa tgaaccaagag tgtaaaaagg cgttcacta 240
 caccattctt actgtttctg catgttttca cgaatcttgt gcattgggac atgcctccgc 300
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<210> 19260
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 ttgcaatttc tctcaaaat tcaattgaat ttgaaattga atttggggag ccaaaatttc 240
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 caacttaatt gga 433

gagcattt	ccttttcacat	tccgttgata	gaat	gccttctgatt	
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actatgccct	atgttccatt	tctac			445

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attacgggac tcaatcagac atccgagaaa aacgttattg ccgtttgaat tggctcagag    300
gttcaacatt caatctcagc cgtctcgata tattacggga ctcaatcaga catccgagaa    360
atagatttat                                     369

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<323> unsure at all n locations
 <400> 19263

tccatcagga tgccttattg agtcccgtaa tatatcgaga cgcctgatat tgaatggtga 60
 attctgaag atttcaaac gacaataac atttactcag atgtctgatt caatccccc 120
 caatccccc atttcaaac gacaataac atttactcag atgtctgatt caatccccc 180
 caatccccc atttcaaac gacaataac atttactcag atgtctgatt caatccccc 240
 caatccccc atttcaaac gacaataac atttactcag atgtctgatt caatccccc 300
 caatccccc atttcaaac gacaataac atttactcag atgtctgatt caatccccc 360
 caatccccc atttcaaac gacaataac atttactcag atgtctgatt caatccccc 410

<110> 19264
 <111> 391
 <112> DNA
 <113> Glycine max

<213> unsure at all n locations
 <400> 19264

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 atgtcttctt ctcaatcccc atgcaagaat gcagttttta catctaaacta ctccaagtga 120
 agattctctg cagctacaat actcacataa ctctgatggt agtcatcttt acaactggag 180
 agaagatttc tctgaaatca attccttggt tctgctgaaa ccttttcacc acaagtctct 240
 ccttgatatc tctctatcgc tcggattntt ccttttagcct atagactcac ctattctgta 300
 acgctttctt tctctctang aaattagtta aagaccacgt cttattcttt tgaaggggtg 360
 tcatctcacc tctcctcgtt agtcccaact caatagt 397

<110> 19265
 <111> 379
 <112> DNA
 <113> Glycine max

<223> unsure at all n locations
 <400> 19265

tactgattga gaagattgaa accacaataa tgacatgtcc atgctacgca tggcatcaaa 60
 aggaguctta tgggtggaag acaacaataa tgatttctcg gccattcctg ctctccatcg 120
 tgaccataac agacgtatgt atctatghag catgtctctt tacagaatca cctacagtct 180

actatgttctt tcaaccata aattgcgaat cattacagca tggcgcaatg tcattttgta 240
 tattaattag ttctactag aagctaccac cttttgttaa tatattattn taaacctcat 300
 aatctcttaa tttctcatta tttactaaag tacatgcata cagaattaac atagcattga 360

<210> 19266

<211> 415
 <212> DNA
 <213> Glycine max
 <400> 19266

tgcataccc caaggatcca tcagtatatt acttgtgaaa tatagccacg agggcggggt 60
 cataggccac ttggggatac ataagacctc tgcatactc agagacaagt tttattgggc 120
 cccgtgtgaag aatgatatcc ataagctttg tactatgtgc gtggtttgtc tacaagccaa 180
 gtctacggtg atgctcatg ggtatacac acccttacc caccatctg cactctgagt 240
 aaacattagc atggacttct gccttggggt atctagaacc caaagagccc gcactctctc 300
 ttggcggggt ggatagggtt atcaagatgg ctcactttat accatgc 347

<210> 19267
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19267

ntggatgcaa atcagtttgg aaaactgagg ggcaagctgg gcatttgtct gctagaggaa 60
 ttatagcagc tactgcaatc tgaacgtgac caaacgaatc acttaacatt aatagcacgt 120
 tcaccacaaa gaaaattcga ccgttgcttc acacgcccct ctacattctt cattcaaatt 180
 tatactgctt tggcatctgt gtttttacca gcatttccca atagccttct gagatttacc 240
 aaatcattcc aaatgctctg cttttccatg gctacctcac caaaagaact tccgctctctg 300
 gtcacccgct gtabcattat ctccgcacca ggaacaacca gaattcaaca tccaacctat 360
 acaaaataatt cctgggcaag cttctgtccc tgagaaactg gttccagaag acaac 415

<210> 19268

<211>	300
<212>	DNA
<213>	Glycine max

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<10>      19269
<11>      402
<12>      DNA
<13>      Glycine max
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agcttattgt	gtgttgatga	ttataacaca	tatatatgta	tatgaattgt	taaaataaat	60
tatgaattaa	tayttcaaat	aataaaaatta	aattgaagga	aattaatata	ttaagattca	120
argataaata	ttttcaatgc	attctagcct	acttatttat	taactttttt	taattgataa	180
taatatagtt	tggtttaata	tatacatggt	taytatgtaa	atactaatat	gggtgtgacgt	240
gcatatgatt	catgaggcgg	gataacatgc	tgctttggga	ttataacatt	gtcgatnaca	300
ctgagtgtat	gtgataaatt	gagtatgtgt	ogaattataa	gatacaagcg	tattgagatt	360
ttgtatgcac	cgagcgtgga	gctatgaact	atactattac	ac		402

<210>	19270
<211>	395
<212>	DNA
<213>	Glycine max

agcattctact aagtcctctt cactatctct atcgagccac aaccagcttc tgcagggtgt 60
tcagcaactgt tacagtggtg catattgaat ctatgcagaa tatcagtagc atattcttgc 120
tctctgagaa caattctctc actacagct tgaatttaat tccaggggaa tatgacaact 180

cacccagggtc agtcatgtca aactcatcca tcagattttt cttaaattca ttcacttttg 240
 ctteattggtt tectgtcaat aacagatcat caacataaag gcatagcata ataatgtctt 300
 caacccacaga ctccacatac actccatggt tagacctaca tttcacanaa cccaaatttg 360
 tttttttt tttttttt tttttttt tttttttt

<210> 19271
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 19271
 agcttaattct ttggcgatcat ttagctcggc taaagtccaa ggcttcagag atatttgaca 60
 ttatctttta gatgaacaaa gatgaagctt aagctttggc ttcactccaa ttatataata 120
 tgccttcaaat actcaccatt gactggatcc ccccccggta atccacaaaa atcaaatctg 180
 gatactgata aagcacagat gcaagagcac tgcctctgtc tgaaggacca tgcacatgaa 240
 actccttttc accaatctga aaagtcttct ctgaactctc ttcacaccca aacgacacag 300
 gaacaacatt cagttcagca gctttcgcgc cattaatcac ggtctctccc att 353

<210> 19272
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 19272
 agcttttgagc aacttcaaac aacaacaact ttttactcgg atgtctgatt gagacccgta 60
 atatatacag acgctcgaaa ttgaataccg aagctctgag caaattcaaa cgacaataag 120
 tttttactcg tatgtttgat tgagcctgta atatatacga acgctcgaaa ttgaagaccg 180
 aagctctgag caaattcaaa cgacaataac tttttactcg gatgtctgat tgagtcocgt 240
 agtatataga gacgctcgga ctggaatgac gaagctctga gcaaattcaa acgacaataa 300
 cttttttctt cggatgtctg attgagtcac gtaatatata gagacgctcg gacttgaatg 360
 ccttagctct gagcaaatte aatgacaat aactttttac tcgg 404

<210> 19273
 <211> 410
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19273

acttctatata tattaatgaa taaaattatg gattgatttg ccattttatt ttggtttct 60

tttttagcaa taatttatg tttttatg ttattttttg ttgtttttt ttgtttttt 120

ttgttgaaac atgaaaatgt ttgtctcttc aacgcaatta gtcttgtttg caaggccatg 300

ttgttagcaa ctactgaata taaagcagcc tcaatagcag cggctttctt taactctctt 360

ttaaccatct ttattttgtt ntccaagtag tcaatcttgt tgtctaaaat 410

<210> 19274

<211> 344

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19274

agcttgatct tttagttttt tatctctaat ctttaattcc tgaacgaact attcaagttt 60

gtaattcgaa ctttaattat cttttaattc gttcctaaag atagattgcc aaatctgttg 120

ctaaactgcac attaatctgt taaagactca cagattccatg tgtccagtat ttccgggcaa 180

gatgtcctgg acatcgtatg cgacattcgt ggatcctgca gcttcaattc ttcatttgac 240

attttatctt gccttgtgca ttgtgcaagc caatctgaat ccttgacata acgtggacat 300

catttgacgc aacttcagct ttccttcaat gtctaagtgc ttat 344

<210> 19275

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19275

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acacattctc tcttgaagt gggtctctct ctctcttttc ctctctcatt cggcgggat 180

tcctcttcca agaagaaaag gaatccattg atgaagaaga tectacgctt acaagctoca 240
atggagctta caccatgtgg tatcaagagc atctccatct aggggatgtt ccttgcctcc 300
ctctctcttc tgtccggaga aatctctnta attacttggc ctccatctta tctccatgtt 360
gctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt

<210> 19276
<211> 19276
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19276

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ggagcacaat aggtgccttc aaatataatt taaaatgtac gctcaacatc ggttttcaat 120
aaaaaactga tgttaacaaa ttgatgagaa cgttaacatc ggttttcttc aacaaaccga 180
tgttaagggt gcttccctaa catcgatttt ttgaaaactg atattaacgt cgttcctgtc 240
acatcagttc tcttcaaaaac cgatgttaag gaatacacat tatttanaat taccaccccc 300
atttacgtaa catgoggntt gtgaaaaacc gatgttaatc cgcgatgtt aaatctgggt 360
ctctagtag tgaaccatac catcaatatt tcagttgatt gataaaata 409

<210> 19277
<211> 232
<212> DNA
<213> Glycine max

<400> 19277

tgttctaca gttttgtacg atatatcagc caattgactc tgtgtgtcat taaactctaa 60
tatgactcgc cctttttgaa catggccttg atggatccga cgccttattc aatatgcttt 120
gctctagagc gccgaatata atttttggat agattgactc ccttcatatt gccacaacgg 180
atacccatat gtacaagctc tcagccatta tcagagagtt gctgtctcat ccaaatgact 240
tgtgcacata aacttccagc ataaatatat tccgttctg ca 282

<210> 19278
<211> 458
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19278

tcacagagacc gcttcaactt caagaagatc ttggaatctg gcattatcaa aaatcaattg 60

ttatctcaat tcttaatttt acaataata gcttcaat tttttgaa ctatttttt 24

ggttggatgt tttgtataaag ttttggcaaa gatttttagct aatagaatga aaaatgtact 300

tgataagggtg attgatccta gctaaagtgc tttcctagag gggagagaag ttctacataa 360

tctgggtgggtg gccaatgagg ttgaggatga agtaaaaagg ggaaaaaagt catgttttgt 420

gctcaatgtn gcatttgaga aggccttcaa cttgatgt 488

<210> 19279

<211> 391

<212> DNA

<213> Glycine max

<400> 19279

tgcgcgcacg gagttttccg actatgctct tgtgtgggtg aacaagctac aaaaggagag 60

agcaagacat gaagagccaa tggttgatac atggacagag atgaaaaaga tcatgaggaa 120

ggggtatgtg cgggctagtt actcaaggga cttgaaatc aagctccaaa aactaaccca 180

aggcgcacgg gggcgaggag tatttcaagg aaatggatgt gctcatgatt caagcaaata 240

ttgaagaaga tgaggaggtg actatggctc gattttcttaa tggtttgact aatgatatcc 300

gtgatattgt tgagctgcag gagtttggtg aaatggatga tttgcttccc atagcaatcc 360

aagtggagca acaattaaca aggaaggag t 391

<210> 19280

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19280

ggcctaatta acctgaaatt gagagaaat gattattaaa cacacaaaat ggaagtaata 60

caacagttga ggcccccca caaccttccc ttgaagaact tgtgaggcaa atgactatgc 300
agaacatgca gtttcagcaa aagaccagag cctccattca gagcttaacc aatcagatgg 360
gacaattggc taaccaattg aatcaacaac agtcccagaa ttctgacaag ctgccttctc 420
tctcttctca tctcttctca tctcttctca tctcttctca

<210> 19284
<211> 451
<212> DNA
<213> Glycine max

<400> 19283
taattccact ttgattccct taattattct ttttagtgcg ttctttaatt agtataattt 60
tacactttcg gtcttctaata caactatata tatagacaat ttgattctct ttgtgacaat 120
ccgaaattat tctcgtaaaa atattttatt ttaatatata atcaattcta ttagggetat 180
tcaatgcaca ttatacctgt aattaataat tgattattat aattgattgt cataattaaa 240
tgaaactgaa ttattaacaa aaaaaaataa aatataaaaa tattatataa ttgattcttt 300
taatatataa aaatattata taattgattg tttatatctt aatattattt taagttaact 360
atgttaaaac actaatatat atttgtaatt atagcatgtt gaagagtatg tatagctata 420
tatctttaat agagttaaac aaata 445

<210> 19284
<211> 451
<212> DNA
<213> Glycine max

<400> 19284
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atgtgacagg gggggaaaag gactgatggg cgaacacctg acggaatacg tccaattaac 120
tcgagatgtg gcttattacc tatagcaat ggaagtactc tttttacaag aggcgagaca 180
cacgctctga cccactttat ttgttttcca gtttatgctt ttgatgatat ctgttggtgt 240
ctatatatgc ttatgcaagt cacattatct cttttctgtg ttgttagtt ctattagaag 300
ggagatagaa tcatcaaca caaaggagga acaaaaacaa taatgctaac tcttggac 360
tttaacacac ttctcattta aagtctccaa ttgtaataaa ctgggatata atcagaac 420

451

aaagagacca at gaacaaag acctcaactt accactatag agtccaagct tagaattata	180
caataacatt ttctgcacaa ccacgaagtc ttttttaact atcatgctat catggaactt	190
ctcgtctctc cctgcagaaac ttggcattct cgttaggcttc tatgcggatt tcattctaact	240
cactcagttg caactttctt tcttcaaccag cttgatccat agagaagttg caagttcttca	300
ctggccagta agcttttgccg tcaattttca ctggaagatg acatgccttt ccaaagacaa	360
cccgataagg agacatttct atgggtgctc tataggcagt ccgatgtgcc caaagagcat	420
cataaagcct	430

<400> 19236

tcatatggag	ccatgccaat	ggtagaatga	acactattgt	tatatgtgaa	ctctatcaac	60
aggagagaa	actcccaact	ccctttttgt	tctaatacat	atgctcttaa	aaggctctcc	120
gacgaatgaa	tggctcgttc	agttcggcca	tcagtctaag	ggtggtaggc	tgaacttact	180
ctaagcttgg	tcccaacgct	ttgttcaaac	tcttccaaaa	cctagaggtg	aatatagaat	240
ctctatcaga	cactatgcta	gatggcacac	catgtaatct	gacagtctca	ctaattgtaca	300
gggagcgtaa	ctctctctaag	gaaaaacctaa	tattgatggg	gataaagtgt	gtagatttgg	360
tcaatctgtc	aacaacaacc	caaatagaat	caaaacctct	gggggtctca	ggtagtctca	420
caacaaaatc	catggagata	ctatccacac				480

1000

<213> Glycine max

<223> unsure at all n locations

<400> 19287

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tgccttctga gcttctctct ccttctctct ccttctctct ccttctctct ccttctctct 120
tgccttctga gcttctctct ccttctctct ccttctctct ccttctctct ccttctctct 180
tgccttctga gcttctctct ccttctctct ccttctctct ccttctctct ccttctctct 240
tgccttctga gcttctctct ccttctctct ccttctctct ccttctctct ccttctctct 300
tgccttctga gcttctctct ccttctctct ccttctctct ccttctctct ccttctctct 360
tgccttctga gcttctctct ccttctctct ccttctctct ccttctctct ccttctctct 420
tgccttctga gcttctctct ccttctctct ccttctctct ccttctctct ccttctctct 442

<210> 19288

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19238

agcttgogat cagcgaagat tgaattgtag agaagcttta agtggtogag atogtgaaga 60
gaatcttgta aacagcgaat tgtttogaag agtgaagctc ttgtttogag tgcttggaag 120
caagtggggg ccaatgcgag ggtgcgggctg caatcggcaa ttgactcggc gattegccct 180
ggggaacggg ggcgcggagg ggcgtgcctg tancattcgg cgaggaagct ctgcggcgcg 240
ctgcgcggcg cgtcgacgat ttccgagaag tggcgggatgg cctcggagta aagcccgggg 300
tcgagggggg cgaagtgcgg ggcgcggcgg cggaggagga acctaatgtg gcgagagagt 360
tcggccacgc tctcggagtc cgcgagaagg gttcgcggcg gagttg 406

<210> 19289

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19289

tgtcttcaat accaatcacc ttataattat gctccacagc ttaccagat tggcctcccc 60

catggtaatg ataaattggt agcacaatgt ctatgcaata ctgtttctaaa gagaaggaaa 120
tattagcatg tttaggcctc aagttaactg gtaaattcaa catcaagtct attagatctt 180
agatccacat gttgtgggtan caaaaacttg agaatgcttt tgagttttac atattctatga 240
taatttatatt aagaaggtctc aaaaatctga aagaagaaac aatc 300

<210> 19290
<211> 419
<212> DNA
<213> Glycine max

<23> unsure at all n locations
<400> 19290

agcttgtatt attacaccat agctctgcac aaaatgactc taggatgtat atacttgtac 60
tgatttattt gctataatat ataatacata catattttgc ctatcaaaaa aaaatccttg 120
actttctcag gcaagtctta aaagaaagta tcacacgggc taccttgttt taagaaatac 180
ctcaataaga aaaaccacac taagtcttac cttggcaaca gcataaacac caaaaagacc 240
cgtgtccttg taattggtgt tgaaagccat aatgctctca gcaacttcat taatgccaat 300
tcgtgtgtct aactccgaac tgtttatagt caaaatgcac tcagttagta tcagggagag 360
aacttttctt tnttcaggaa ggggcgttca agtcacatac cccatgtgtt ttcca 415

<210> 19291
<211> 370
<212> DNA
<213> Glycine max

<400> 19291

agctttgaat cgattacaca catactataa tcgattacca gaagagattt tcagaaaata 60
ttctcaattg gcacatcttt tcatttgggt cttgaatggc tatcaaaggc ctatatatat 120
gtgacttgag acacgaattt gctaagagtt tttagaaca aaaaggtcct atctctctaa 180
aaagcaaaat ccgtttatcc tcttacaat tcttggcca aaacaattgt gattcaataa 240
ggaattattt gagtgcctaa attgctcaat ctatctcttt caagagagat ttctctctct 300

tttttttttt atttgaaca gggattaaga gaccgagggg ctcttgttgt gaaagaatto 360
 taaaacacaaa 370

<210> 19292

<211> 399

<212> DNA

<213> Glycine max

<400> 19293

agcttgttgt gcattatatt acattatatt aaaggattt ttataggggt agcttccaa 60
 actccaccaa gattcccttg gtgaggtggg acatagtctg cctacctaag agtaaagggtg 120
 ggttaaggat caaagatttg attaaattca atgagggctt gcttgcataa tgggggtggg 180
 agtttgaaaa taatcagaat cagtgttggg ccagaattct attgtctaga tatgggtggt 240
 ggagggattt gattctctgt aggaactgca gtttagactc tcttgggtgg aaagacctca 300
 aggttatctt caagcagcag cagagcaaca caatttgcaa ccaactgaag tggaaagctg 360
 gatcgggaga taaaattagt tcttggaagg ataagtggct acatcataat ctg 420

<210> 19293

<211> 399

<212> DNA

<213> Glycine max

<400> 19293

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 tattatgcgc cttaatcgga cctccgagtg aaaagttatg accatttgaa taactcaaga 120
 gcttccattg ttcaatttcg agcgtctcga tatcttatgt gcttgaatct gacctccgtg 180
 tgaagaagta tgaccatttg aatttctcga gagcttccgt tgttcaattt cgagcgtctc 240
 gatacttat gcgctgaat cggacctctg agtgaaaagt tatgaccatt tgaataactc 300
 aagaacttcc attgttcaat tacgagcgtc tcaatatatt atgtgctga atcggacctc 360
 cgagtgtaaa gctatgacca ttggaattgc tcaagagct 399

<210> 19294

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 19294

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agcttttggg agaatcaaga agtgccttat gaatectccc gtgcttatgc caccagttacc   60
tggagagcct ctatatttgt acatgacaat cttagagcag tcaatcgggt gtatgctagg   120
ctgagagcct ctatatttgt acatgacaat cttagagcag tcaatcgggt gtatgctagg   180
ctgagagcct ctatatttgt acatgacaat cttagagcag tcaatcgggt gtatgctagg   240
ctgagagcct ctatatttgt acatgacaat cttagagcag tcaatcgggt gtatgctagg   300
guttaagttac atctttgaaa agctagctct caccgtggca agtcttgcct ccagagtttg   360
aatagttcta agtcacccaa aaggcgat                                     388
  
```

<210> 19295
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19295

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agctttaaca gtataatctg agctagctga ataaaaatct gacatgaagc agttattaag   60
gtaatcattg ctcccatgc ctgaaaagaa tagacatttg tttaggtagc tattaagtga   120
ttcattgtct cctctgaaga acctctcaa ctgctgcact gtgttgtaa agttagccac   180
ttgctcattc aatgatgtat gagcccccctg caaacaatta cataagaaaa tcagaggagg   240
tgtggtccac gaattattgt gctcacaga acgatatgta catttaatat gtgcttaatt   300
tctcnaata ctcatgaata tgaatttgca tacaaggtta ctctctgttt cttctctaat   360
gcttctgtct ccagatgcat agctagctcc tcttaatagt ctcaaacccc   410
  
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<210> 19296
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 19296

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agcttgacac atgtgcctca gcagcacaag atgagaatgc tagtgcttct ccagagttgct   60
gtgctcaggt gaacaaaact gcgcagaacc ctagttgact ctgtgcagtt cttctctcta   120
tcacagccaa gatggctggc gtcacccctc aagttgctgt caccatcccc aagcgttgta   180
  
```

acctgcctaa tggccctgtt gggtacaagt gtggacgtaa gtgcgattaa ttaataatta 240
ccccttcttt atatatacaa aggagaggtta ctcacgtgac actactttga taaagatgct 300
ataaaaaaaaa gattattcaa ttatcaaaat tgaaagaaat ataacatata gtatatatat 360
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<210> 1
<211> 23
<212> DNA
<213> Glycine max

<400> 19297
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tatcataaca cgttttcaaa gcacatccat gaacactttt ccaaacctca aaattgttgc 300
gtctaaaccc cataaccctc atctggcaga caagtagcaa cgaatcttca tggcagtaat 360
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<210> 19298
<211> 404
<212> DNA
<213> Glycine max

<400> 19298
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tagggaatag taagtttgac aatgcacatg taaatttaag agcttctgtt agtcttatgc 180
ctctgtctat tttaattct ctatctctag gtcccttcca gtcaactgat gtggtaattc 240
atttagctaa tagaagtgtt gccacacctg ttggtttcat agaagatgct ttacttagag 300
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aaggatcagt tcccatcatt ctaggcagac cctctatgaa aact 404

<210> 19299

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<123>      unsure at all n locations
<400>      19299
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atggagggag	aaatatgcat	cacacgaagc	agtatagaat	ggaggcttca	atcgtttctc	360
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<L10>	19300
<L11>	415
<L12>	DNA
<L13>	Glycine max

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acaaccctca	ctctatgggc	taactgttaa aattgagtta ggtccaaaact cgcattctag 180
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gattaaagat	aacgtcaaga	tagattatat aattgaggtg caacctctaa gttgaagtat 360
gtatgtcatg	tactaagctt	cttataaata aagtcaacct gagggccaagt gattc 415

42108	19301
42118	404
42128	DNA
42138	Glycine max

<223> unsure at all n locations
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 agaaatatac taataactat gttatccttg tegtgtatgt tgatgacatg ttgatcgcag 180
 gatctagtat ggcagaaatt aacaagttga agcagcagtt ggcacacacac tttgaaatga 240
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<310> 19302
 <311> 245
 <312> DNA
 <313> Glycine max

<400> 19302
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 ggcataata tatcaagacg ctgcgaactg aacaacggaa gctctctaga aatccaaatg 180
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 tgaac 245

<310> 19303
 <311> 284
 <312> DNA
 <313> Glycine max

<400> 19303
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 ctgttgtct atctatagc aatatgcaat atactatcct ttgttgctca tcatggaatg 180
 atggcgtatc aatagacgt aaaaagcact ttccttaatg gaattatcaa gaagtttatg 240
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<310> 19304
 <311> 381
 <312> DNA
 <313> Glycine max

<400> 19304

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cctgcaagaa gtccaatctg a 331

<210> 19305

<211> 353

<212> DNA

<213> Glycine max.

<400> 19305

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accttggatg caactgtgat cttataccca tattaactag atcttgaccg gtattcaagc 180
catacttcgt cttgccttga atgttaagga gcgttccaat cacactgtca caaacatttt 240
tctccacatg cataacatta ataccatgtc taaccgtcag atcaacacag tacggaagat 300
caaagaaaat ggaccttttc tttcatatgc aactctgact tttattcttt ttttgggt 358

<210> 19306

<211> 368

<212> DNA

<213> Glycine max

<400> 19306

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ttggctctga tgcactgag tatagaaggg atcatatcat tcttttgtat tgggtgccat 180
cctctttctt tgattcctcg tccagttcaa gatgtgtaat cgaatgcatt cgtgtcttca 240
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gaactgaaat gccttttatct atctgcttca ttctcgcta acgcacaatt taagtcctta 360
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<210> 19307

<211> 19307
<212> DNA
<213> Glycine max

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ggagcaacct aaagcaattg agcagcctga agcttatgct tgaaatatct acaatagacc 180
ttctcaacct cagcagcaaa atcaaccaca gaagagcaat tatgaccttt ccagcaacag 240
atacaacccc tggatggagg aatcacccta accacagatg gtccagcccc cagcaacaac 300
aacaggagcc ttcttcttcc ttccaaaatg 330

<210> 19308
<211> 352
<212> DNA
<213> Glycine max

<400> 19308

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ccccgaagc accaaaaaca cataccatat gttctatcat tacacacca aagtgtctaa 180
tctctcctgt aaatctatgg cattctcgta tgggtcacc cttctccgaa agattacaag 240
ccatgcaaac aaactatcc ttctttaata ataacaagag ttctatttgt aatacttgc 300
attatgccaa atataagaaa ttacttttc atctaacaca tctcatgcat ta 352

<210> 19309
<211> 210
<212> DNA
<213> Glycine max

<400> 19309

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 acacacacgg cttttattta tagcctaagt gtcacacaaa attggagggg aatctgaatt 130
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<210> 19310
 <211> 337
 <212> DNA
 <213> Glycine max

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 aaaaatgcca gtcctacata ccaacgactg atggactgag tcttttagaca atagatcgga 130
 ccaaacatcc atgtatatgt ggaagacatg gtctgcaagt ctaaaagcat agcccaaac 240
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<210> 19311
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19311

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 cctgtatccc attacttaga gcaccacca aaaggataag tattgaatca catacaccac 240
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 aaggaatggt ctggtaactg gcattcaatg aattctg 337

<210> 19312
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 19312

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 ccgagctgct cgarattgga aacataagct ccgagcaaat tcaaaagaca ataactcttc 180
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<210> 19313
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 19313
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 tctcaagct ctcttccac ctcttcttct tcactgattt cagatccact ggtgatttct 180
 ccctctgctt tcatgacat ggcctctctg gttggacagt caaaagcaat atgtcctctg 240
 cctaagcatt tgaagcattt tatgtttctg gtaccgggtg tggatcatgg cgtacaatta 300
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<210> 19314
 <211> 350
 <212> DNA
 <213> Glycine max

<225> unsure at all n locations
 <400> 19314

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 ttccacattg ttgtctccac catgaaacc ccagatgtcc aagaggatca catatttctg 180
 aaggcttttc ctcatcatt agagggagtg gcaaaggact ggtgttatta ccttgcctca 240
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 ttccaggaca caaccatcan gaggataact cactattac acaactcagt 350

<210> 19315
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400>

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 ccatagatat gtcattgactt gactttgcac attatttctt atcaaatcaa aaattacatg 300
 cgtgatcatg gatcaatagg gcttcccttg ggaatgggtt cttttgggtg tctcttcttt 360
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<210> 19316
 <211> 304
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19316

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 tcagacttct gacctcaccg gatcttgctc aagagttcgc tggtgactct caacataccc 180
 aacttaattgc tactacaggt gatctcact gccaaaactca tgtctctaaa ctgctctaa 240
 aagcccaact ctctaacatc aaaccagaca ttgaaggat ttctactta cgcctcacta 300
 ctac 304

<210> 19317
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19317

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 gtattgtatt agcatgagaa aacataaata aaattaagac aaagattaaa acaacttaaa 180
 aaagaaaaaa tacagataat ttaatttaaa aaattatgtg agctaataat taatgttttt 240

<210> 19318
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19318

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 ctcttctcat tcaactttgta cgtgtagcca tattctaacac caattcaaaac aaaatccata 240
 cattaataag catgattaaa gatcgcaaat taacatacac aatacactac aactcatctc 300
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 <211> 287
 <212> DNA
 <213> Glycine max

<400> 19319

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 ttacaaatag acctcttcaa cctcagcaac aaaatcaaac acagcagagc aattatgacc 240
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<210> 19320
 <211> 302
 <212> DNA
 <213> Glycine max

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acagaacatg ccagttcagc atgagactat agccctc 337

<100> 19326

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aacaattcta gatcatgtgt aggttagtgt ctctcacaca tcttcaacta tcaagatgca 300
tatgttataa ccttctatg ttacacacca atatgcaact canaccttga taagagacat 360
cat 363

<210> 19327
<211> 371
<212> DNA
<213> Glycine max

<400> 19327

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tattttaatt ctaatgcaag ttacaagttc ccttaaaaaa gaactcttaa ataatgattc 180
aaataaaaaca atctgaatat aaatgcacaa caataataaa taaaagattt taagggaaga 240
gaaagtgaac actcagattt atactggttc ggccacacca ttgtgctat gtctagtttc 300
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<210> 19328
<211> 392
<212> DNA

<213> Glycine max

<400> 19328

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gagcctctga ggcctctgga ggcctctgga ggcctctgga ggcctctgga ggcctctgga 120

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<210> 19329

<211> 331

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19329

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aacccagttc ggtgcaacct cactacatc tngggctac caagccacgg aggaaatcca 180

ctaaaatagt gttagtcca agtctaacag ccactgttta caaccttctc acctaacac 240

taccctgga atctctacct aagagccact cttagatatg agaacctgc tcactccctc 300

tcaaccacac tccctgtgtg acaaataaat c 331

<210> 19330

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19330

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tacctaaagag atcatatcac caagcctctc caccatgat acaaataaat atgggaacaa 180

tgggtctccc tgaagaagcc ctctcacagg aataaaaacta ttttttggtc taactccatt 240

ccacatgata aaaaataaag tagatgacag agcatgtata atcacagaca taatgggtatt 300

atgaaaataa caaaaatnaa aaagagtttc ccaccaacaa aatcctagtt cacacgatca 360
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<210> 19331

<211> 19331

<212> DNA

<213> unsure at all n locations

<400> 19331

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cataagttga atagttaagg gtaggaccac ttatgttttc actaaaataa gcaattggat 180
ggccttcttg catcaacaca gccccaatcc caacatttga agcatcacac tcaatttcaa 240
aagattattg aaagttttgg aacgcgagta tggaggcatt agttagctnt tgettaagaa 300
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c 361

<210> 19332

<211> 329

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19332

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<210> 19333

<211> 210

<212> DNA

<213> Glycine max

<210> 19336
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 19336

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 cttgcctgctg cttgcctgctg cttgcctgctg cttgcctgctg 180
 cttgcctgctg cttgcctgctg cttgcctgctg cttgcctgctg 240
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<210> 19337
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19337

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 tggactcatg aacaggggat cttgactctg taagangctg cngngcatgc cgtgaatctt 420
 tggactcatg aacaggggat cttgactctg taagangctg cngngcatgc cgtgaatctt 446

<210> 19338
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19338

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 gctcagatat attacgggac taatcagaca ttcgagtaaa agttattgog tttgaattgt 420
 caaaacttca caatca 480

<400> 19341

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 gaattaaaat attcgaaact cttcccccctc attaaaaatc tatcttactt tttacttaag 120
 ttatgaatcc ctctaatgac aatcttggtt tatattaatc cacatgaagc aacttgacta 180
 tgaatataaa gcaactaatc ataaaggaga ttatcggiag agagaatgca aactcaatta 240
 tataatgttt cgggcacaca ettggtgcta cg 272

<210> 19342
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19342

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 caacaaggag ggtctttaag tatgttgcag gtccaatcaa acttggagta ctttatgaga 180
 gtgtggataa ttccaagttg gttggctata gtgatagtga ttnggtaggg ttcttagatg 240
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<210> 19343
 <211> 276
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19343

agottataaaa tatotaaaatt attatntntaa ataaaatattt gtttgataga tttagatttaa 60
 aaatataaatt gtcaatgata ttntatatca ttntatgtta aaagagataa aaatntacat 120
 gtaaaatnaag atatttttta tttatnaata tttttataac gaatgtttta aaatttagaga 180

<210> 19344
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19344

agctntncac ttttatgtct gnatpaaagg cataaatatat cgagaanggc ggaattgato 60
 atgtggaagct cttgagcaat tcaaatgato ataaactgtta actccgatgt ccgattcaacg 120
 cgcataatat atcgagacat togaaattga acaatggatg ctcttgagaa atacaaatgg 180
 tcaataacttt tcaactctgag gtccgattca gactcactat atatcaagac cctotaaaatt 240
 aaacaattgg agctctcgag aaattcatat ggtcataact attcaactgg acgatcaatt 300
 caagcgcato atatatagag acgcttgaat ttaacaa 337

<210> 19345
 <211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19345

agcttttttg attttttaac gacaataact nttaactcgg atgtgogaat aagtcocgta 60
 atatategag acgctcgtaa ttganaactg aagctctgag caaattcaaa cgacattaac 120
 atttgaactcg gatgtccgat tgggtccggt aggatatega gacgctccan attcagaacg 180
 aaagctttga gaaaaatcta agcataataa ctttttaactt ggaatgtctga tccagacctn 240
 gtatatatca agatgcctga aattgacaac ggaagctcta adagaagtca taagacaata 300
 acttatgaact tggatgtccg atgtgtgccc gtaagatato gagatgc 347

<210> 19346
 <211> 390
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 19346

gagagatgac gacatattcat ggaaatcatt cttaaagaaa agacgaagga agaaatgagg 180
 attctcaaga taatggggct agaggaaata atgaacttcc aagagaatgg anagcctcaa 240
 agagatcates cctcgacaac attattggty atatatcana aggggtaaca actagacact 300
 ctcttaagaa ttatgcaat aatatggctt ttgtatctat aattgaaact aaaaatataa 360
 tagaagtcac agtadcatgat acatggatca 390

<210> 19347
 <211> 413
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 19347

agcttagctc tagatgtgat ggaccttntc aggttntgga gaggatcaat aacaatgcct 60
 ataggttggg cctcccagaa gagtatggag tcagcaccac ttttaacatt tetgatttaa 120
 ctccttttgc aggtggagct gatattgagg aggaggaact aacagatttg aggtcaaacc 180
 ctcttcaagg ggaaggggat gatgcaatcc tccctatgaa gggaccaatc actagaacca 240
 tgagcaagag gctccaagaa gattgggcta gagctgctga agaaagcctt atggttctca 300
 tgaaccttat ggtagatttc tgagcccatt ggccaaagtt gggctcaatt atctttgtac 360
 atattagaact aggatgtcat tatatttggg ccttgtatat anggctccat att 413

<210> 19348
 <211> 392
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 19348

cttcttttato cccatatacaa ttatgcagct tgtagttaac atgaatggcc cteccaatat 60
 tataggaatg tcattatott cacagacato cattaccaca aagtctatog aaaagataaa 120
 angtttactc tgaaccaaac atctttaatt actctgtang gtctggtaat ggaggaatca 180
 tgaatgtaac tgaatgtaac tgaatgtaac tgaatgtaac tgaatgtaac tgaatgtaac
 tgaatgtaac tgaatgtaac tgaatgtaac tgaatgtaac tgaatgtaac tgaatgtaac
 tgaatgtaac tgaatgtaac tgaatgtaac tgaatgtaac tgaatgtaac tgaatgtaac

<210> 19349
 <211> 315
 <212> DNA
 <213> Glycine max

<400> 19349
 cctgtgatgtt cctgttaagag cgaacagtga aatacaggat gaatccttgc ctectcgggt 60
 agtttgagtt tgtatgagac ttggcccaca cyttcgatta tetgaaaagg cccaaagtat 120
 cttttgggta gttttgggtg tattgaacca actacgggtgc gttgcgggaa gggacgaagc 180
 ttaacgtaga cccactggcc tatgctgaag gtgacgtcac ggcgcttggt atccgcgaat 240
 ttcttcattg tctcttctgc cttttgaaaa cgatgttgta acttccgggtg gatctcttga 300
 cgcgagtgtg gcattg 315

<210> 19350
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19350

agctnccatt gttcaattnt gttcgtctcg atatattatg cgcctgaato gcacatccga 60
 gttaaaagtt atgacctttt gaatatctcg agagcttcca ttgttcaatt tcgagcgtct 120
 caatatatta tgcgcctgaa tcgacctcc gtgtggaaaag ttatgaacct ttgaatttct 180
 cgacagcttc cattgttcaa ttccgagcgt ctcgatatat tatgcgcctg aatccgacct 240
 cccagtgaaa agttatgacc atttgaattt ctcgagagct tccgttggtc aatttcgagg 300
 gtctcgatat attatggtcc tgaatccgac atcccautda aaagttaaga ccattttaat 360
 tgcctcaagag ctccattga tcaattttgt acgtctcgat atattatccg ccgtg 414

gpgcatcaca tatcaagacg ctctgaattg anaaccggaa gctctcacaa aattcaaattg 120
 gtcataacct gtcacacgga agtctgattc aggggcagta tatatcgaaa catttgtaat 180
 tgaaaaaaga acgcaactga gaaattcgaa tgggcataac ttgtgcaacg gatgtccgat 240

<210> 19354
 <211> 309
 <212> DNA
 <213> Glycine max
 <400> 19354

aatatactg taatcgatta ttttttggtt tttcagaaaa cattctcaac agtcacatct 60
 ttttatctgt ttcttaaatg gccatcaagg gcttatatat atgtgaattg agacaagaa 120
 ttaacaagag tttttcagaa caaaaaagtc ttatctcttt ataaagcaaa atcggtttat 180
 cctcttacaa attccttgge caaaacactt gtgattcaat aaggaattat ttgagtgtct 240
 aaattgttca atctatctct ttcaagagag atttcttctt ctctctctctt ttattctgaa 300
 aagggtatta 309

<210> 19355
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19355

agctngtggt gnattttcat ggttgacgtg cagctttgag gaagaccaga taagatgaaa 60
 tggacgggct gtttagtttg cagggcgtgc tgaacacagc agaggagagt ctcaataggg 120
 gtgtgaaaga gatgcancat gagatggatg ctctggagca gcagttacag atgtgtgtga 180
 tgaatactga tgtnttggaa ggggtggtga tggataatca ggggaagaag atggccggtt 240
 tggagaatcc agaggatgct ttgagtggtg cggatgtgct ctcaagcat atgcttgact 300
 gtaactgtgc tpatttggcg attcaacaca cggct 335

<210> 19356
 <211> 292
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19356

gagcttctgctg gctgctgctg gctgctgctg gctgctgctg gctgctgctg
 gctgctgctg gctgctgctg gctgctgctg gctgctgctg gctgctgctg
 gctgctgctg gctgctgctg gctgctgctg gctgctgctg gctgctgctg 1-1
 gctgctgctg gctgctgctg gctgctgctg gctgctgctg gctgctgctg 240
 gctgctgctg gctgctgctg gctgctgctg gctgctgctg gctgctgctg 292

<210> 19357
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19357

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 tacettatga ccagaagtgg tacatcaaac cacaaagaag gtcaagttta tccaagaaaa 120
 gatgacgact gctcanagta tgcagaaaag ttatcatgat aagatgatga atgatcttga 180
 attcaggggt ggtgatcatg tattcttgag agtcactccc tggactgggg tttgtcgagc 240
 attgaaatcc cgaaaactaa cactctgctt tattgggtcca ttccaaatto ttaagagaag 300
 ttgctctgtg gcataccaaa ttgcattacc ccgtcttttt ctatcttccac aatgtctatc 360
 atgntgtctc aactcataag tatatccctg atccatccca tgtgattgaa tt 412

<210> 19358
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 19358

atadtttaaga agacccgagt aggaatgagt tgaatttate tatgaagcat daaatttagcc 60
 gcaacccattg aatcagcttc aatccaaaag tcttttaaat taagctccca cgcctgctcc 120
 aaagcagtaa taagccccc aatctctact atcataagag aaaaacacac caatttccctg 180

gtaaaactcgt ttatccaatg gccattacca tcaagcatca ctccaccaca gctagccttc 240
 tggccaacat ctataacaga agcatcaaca ttgtacttaa aatagccccc tgaggcaacc 300
 aaaaaaaad cctatccgca caacaagatt gcccatg 360

<210> DNA
 <211> Glycine max

<400> 19359

accatttgtt ttgttgtcat atacagtctt aagctctctt cgaatgccat gttctgcaca 60
 taaacatttg catattcttg tggagcaata ttcacacact cgatctgcgc gaagagtctc 120
 tatagaactt actagctcat tatcaacact tggtttgaag cttttaaatg taaaaaacgc 180
 ttcgattctt tctgtataa tataacgcgc atgtttctct gaataatcat caatgaagca 240
 tattaagtat ctcttacctc cattagaaaa tgggtttatt ggaccacaaa taccagaaag 300
 caccagctcc aagacatcta tagctctcca tgactcttct ttgcgatact gagatc 360

<210> 19360
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19360

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 cagtggccaa ggatgcttgn gagatcctaa aaatcactca tgaaggaacc tccaaagtga 120
 agatgtccag attgcaacta ttggccacaa aattcgaaaa tctgaagatg aaggaggaag 180
 aatgcattca tgaattccac atgaacattc ttgaaattgc caatgcttgc actgctttgg 240
 gagagagaat gacagatgan aagcttggtga aaaagatcct cagatccttg cccaagagat 300
 ttgacatgaa agtcaactga atagaggagg cccaagacat ttgcaacatg agagtagatg 360
 aactca 366

<210> 19361
 <211> 379
 <212> DNA

<213> Glycine max

<400> 19361

attatcggat ttgtatcttg gatgggtgat ttgtttctta catggagttc taagaagcaa 60

ttgtttctta catggagttc taagaagcaa ttgtttctta catggagttc taagaagcaa

ttgtttctta catggagttc taagaagcaa ttgtttctta catggagttc taagaagcaa 120

ttgtttctta catggagttc taagaagcaa ttgtttctta catggagttc taagaagcaa 180

ttgtttctta catggagttc taagaagcaa ttgtttctta catggagttc taagaagcaa 240

ttgtttctta catggagttc taagaagcaa ttgtttctta catggagttc taagaagcaa 300

<210> 19362

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19362

agctttgaat gatgcctaaa tagtggtgtg ttgtgcggga gacgggtttt ttcctctgcc 60

ttgtgcggga gacgggtttt ttcctctgcc agctttgaat gatgcctaaa tagtggtgtg 120

ttgtgcggga gacgggtttt ttcctctgcc agctttgaat gatgcctaaa tagtggtgtg 180

ttgtgcggga gacgggtttt ttcctctgcc agctttgaat gatgcctaaa tagtggtgtg 240

ttgtgcggga gacgggtttt ttcctctgcc agctttgaat gatgcctaaa tagtggtgtg 300

ttgtgcggga gacgggtttt ttcctctgcc agctttgaat gatgcctaaa tagtggtgtg 360

ttgtgcggga gacgggtttt ttcctctgcc agctttgaat gatgcctaaa tagtggtgtg 409

<210> 19363

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19363

agctttgaat gatgcctaaa tagtggtgtg ttgtgcggga gacgggtttt ttcctctgcc 60

ttgtgcggga gacgggtttt ttcctctgcc agctttgaat gatgcctaaa tagtggtgtg 120

acaataactt tttactcgga tgtcggattt agtgacgtaa tatatogtga cgtccaaatt 180
 tgaatgttga acctctgagc caattcaaac gacaataact ttgtactogg atgtctgatt 240
 gaatcccgta atatctgag agcttcgaaa ttgaatgttg aacctctgag ccaattcaaa 300
 ggtctcagat tttctcagat ggtctcagat ggtctcagat ggtctcagat ggtctcagat 360
 ggtctcagat ggtctcagat ggtctcagat ggtctcagat ggtctcagat ggtctcagat 420

<210> 19364
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 19364
 ctctgagctt caacattcaa ttccaagcgt ctcgatatat tacaagactc aatcagacat 60
 ccgaataaaa cgttattgac gtttgaattg gctctgaggt tcaaaaattca atttcgagcg 120
 tggcgttata ttacgggact caatcagaca tccgagtaag aagttattgt cgtttgaatt 180
 ggtctcagac ttcaacattc aaattcgagc gtcctcgatat attacggcac tgaatccgac 240
 atccgagtaa aacgttat 259

<210> 19365
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 19365
 ttccgagcgt ctcgatgtat taagagactc ttcttacatc cgagtaaaaa gttattgtcg 60
 ttgaattttg gttcagagctt caacattgaa ttccaagcgt ctcgatatat taagggaactc 120
 aatcagacat ccaagtaaaa agttattgtc gtttgaatta ggtctcagcg tcaataattca 180
 atttcgagcg ttccaataga ttacgggact gaatcagaca tccgagcaaa acattattgt 240
 cgtttgaatt agttcagacc ttccagaattc aatttcgacg gtttcgatat attacgggctc 300
 tcaatcagac atctgaggaa aaaagttatt gtcatttgaa tatgctgaga gcttcaacat 360
 tcaattttga ggtctcagat gtattacggg accttaacag acattctgag taaaagttat 420
 421

<210> 19366

<211> 399
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19366

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 attcaagtta gtgaaacttg gcggtttgcc aagaatcgga tgtaggttat gtggttaaga 120
 tgaactggta taaacatcat gtgtcttata ctgattttct ctttaaacta accttaaggtg 180
 tgaatttgat ctttgctttt gaaaaaaaact gatccaataa cgcttttgta gatatgaaca 240
 aatttgataa atattttataa ctctcagata gagtattaga acggaagact tcattagatg 300
 atgaactatt gattctcagc catctctggc aatgaatgaa cagttcaaaa tgcttntctt 360
 cagttattctt gataaagcag tgtgtatata cagatgt 399

<210> 19367
 <211> 397
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19367

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 attcaagtta gtgaaacttg gcggtttgcc aagaatcgga tgtaggttat gtggttaaga 120
 tgaactggta taaacatcat gtgtcttata ctgattttct ctttaaacta accttaaggtg 180
 tgaatttgat ctttgctttt gaaaaaaaact gatccaataa cgcttttgta gatatgaaca 240
 aatttgataa atattttataa ctctcagata gagtattaga acggaagact tcattagatg 300
 atgaactatt gattctcagc catctctggc aatgaatgaa cagttcaaaa tgcttntctt 360
 cagttattctt gataaagcag tgtgtatata cagatgt 397

<210> 19368
 <211> 363
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19368

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caacagccac atcttttatat gtggetcttg aatggctatc aaaggccctat atatatgtga 120
 ottgaaaacac gaatctgctc agagtgtttc agaacagata ggtcttctcc tcttataaag 180
 tacaatcttt tctctctctt acaaatctct tctcaaatc acttctctat caataaataa 240
 tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt
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<210> 19369
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19369

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 agtctacacc tctctgaaga gtctgtggc tatgttcttc tgcagatcac catatagatc 120
 tctgtctctc ttgcaacaa tctggagtta atgagcaacc tgaagcttt actgcaacaa 180
 tttataatag acctctcag cagcaaaacc aacaacagca gaataattat gaactctcaa 240
 gcaatagata caatccaggt tggaggaatc acctaaatct gatatggaca agtncctcac 300
 aacaacaaca gcttgtctct cctttctaga atgtctcttg tccaagcaag ccatatgttc 360
 ctctctcaat ancatagcag cagtcacaac aaagacatca agcaacta 408

<210> 19370
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19370

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 tttatctga acaatagttg tctggggggt aaccactaca aaaaaaatat tttcaacatt 120
 gttattttaa cctcggtttt tgataaaaatc gatgttaaca aatgagcggg gacatttttg 180
 taaataaact gatttggta aaaaaaaccc aatgttaacy tcaaatatt aacatccgtt 240
 attaaaaac cgatgttaac gtaacaatgt taacatcgag ttttcaaaaa tcaatgttaa 300

cacgtgcacg ttaacacga ttttacaaaa atcgatgttg aattttaatg ttgtgtttt 359

<210> 19371

<211> 410

tttgaaga tttgataat ttgattttt catcttaaa ttgtatg ttgtatatt
 aqacattttg cctaacaaag tcaagcttgc cataactoga ctgtgctttt tcttcaatgc 100
 ctatgttagc aaagactttg atcttgtcaa gttagatgag ctggacaaag aggcactat 140
 tatattgtgt cagttgaaga tgtagttttc acctgctttc tccaacctca tgggtcactt 240
 aattgttcat ctggtaagag aaatcaaatg ttatgygcca attcatttgc attggatgta 300
 ccgggttgag cgatacatga agatcttaac aggggtatacc atgaatctac accattcata 360
 aqcatctatt gtggaaaggt acatgcgaaa agaagtcatt gaattatgtt 410

<210> 19372

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19372

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 aagataatcc atctaagacc tggattaata cgttgtgtct aaaagtaatc aagggattga 100
 atcagaaaac atataagcca accacaacct taaaaattgg cattgctcca atgtaaaac 180
 tgaactgcac tgcacaggcc tccgaattga tgcacttgcct tagtctatcg ggtaggtcat 240
 atatgaacta ctctcaacaa aggtaaaaag tatgtcaatc atattccact tccacaaaag 300
 actcagaagt cataccacta agtcaagtat ggaaacataa atatttcagt gatgcacaaac 360
 cggaaataaag aaacatgcat gattgcttta ataattaata cctgaac 407

<210> 19373

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 19373

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agcttcacatc ttgattagtt ttattaactn tgaaggcatg aataacaata atccctcttg 60
aaatgaaat taagatctga aattgagata ttacacatc ctgtgtaaaa ttacatata 120
ctgtgtaaaa ttacatata ttacatata ttacatata ttacatata ttacatata 180
ctgtgtaaaa ttacatata ttacatata ttacatata ttacatata ttacatata 240
ctgtgtaaaa ttacatata ttacatata ttacatata ttacatata ttacatata 300
aaatgaaata tgcgaatggaa gtatatpacc cgggtctgaa ctgaagtttc aatatgtgaa 360
tagaagctat gattatatgc atgggtggtga tcttttacca ggtctctgtg at 412

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<210> 19374
 <211> 336
 <212> DNA
 <213> Glycine max

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<400> 19374
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taagacctca ttagctatca ttacaccatg gaggatatgt ctgcctttga ggaaagcaat 120
ttgcctttca tcaattaagc gaggcagcac aagagccagc ctattagcca ggactttgga 180
cattattttg tagacacacc ctatgagaga gatgggtcta taatcattaa gagattgggg 240
gctattgggt ctgggggatga gggctatgaa cgatgcatta ctctctttgg ggaatctgac 300
attaatgaag aattcatcaa agaatatgat aaaagc 336

```

<210> 19375
 <211> 236
 <212> DNA
 <213> Glycine max

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<400> 19375
tcataaagcc cccactgctc atcttttttt tgtcttctac tacagataac aaggtctgct 60
gcattccacg aaagttcttc tgcctcaatc ctctctgctc tcttataagt tgaattgata 120
tctctctatg atggcgctcc ctgcttgaca aagtgctcaa gcttgcttct tccaagtcaa 180
tgacctgtaa gcaccattgg tacattttaa gcaactggaa gaataacagc agtata 236

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<210> 19376
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 19376

gcttgccttctt ggcagctgctt ggcagctgctt ggcagctgctt ggcagctgctt 60
 ggcagctgctt ggcagctgctt ggcagctgctt ggcagctgctt ggcagctgctt 120
 ggcagctgctt ggcagctgctt ggcagctgctt ggcagctgctt ggcagctgctt 180
 ggcagctgctt ggcagctgctt ggcagctgctt ggcagctgctt ggcagctgctt 240
 ggcagctgctt ggcagctgctt ggcagctgctt ggcagctgctt ggcagctgctt 300
 ggcagctgctt ggcagctgctt ggcagctgctt ggcagctgctt ggcagctgctt 360
 ggcagctgctt ggcagctgctt ggcagctgctt ggcagctgctt ggcagctgctt 412

<210> 19377
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19377

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 ttgacatgna tnttaagcta gatgacggcg atttgtgaaac accaaatatt attacatatg 120
 gggcttttggg ggatgggttta tgcaaagcga acagggttga agaaacccat gaattattgg 180
 ataccatgtc agttaatggg tgtgagccca accaaatagt gtatgatgct cttatagatg 240
 ggtnttgcaa gactggaaag cttgataatg cacaagaggt gtttgtgaag atgtcatagc 300
 gtggatactg tcccaatntg tatacctaca gctctctaataaatagtcta tataaagaac 360
 aaaattggat cttgttttgaa agtggttgcca agatgctcga gattcttgca ctccaatgtg 420
 gttattacaca acatgatt 438

<210> 19378
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19378

agcctttggg tgttctctct ttccttttct cangccctat cattctcaca taetggatnt 60
 taagtcttat tagtgtcttt ttctaggata ctctacaaac cataaaggct ataagtgcct 120
 gttctactat gttcaaatat tcatctccaa gcatgtggtg ttcaatgaaa ccatcttccc 180
 ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct 240
 ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct 300
 cattcagtea gtcccactt ctctattcc tcaaatccc aaactcctgt ttgattctg 420
 gtcttacaat cagtcagttc caattact 448

<210> 19379
 <211> 377
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19379

cgactaatac acttgtaaaa acatagaaag ttagtntatt tatatgtata taccatcaat 60
 tgatatattg gtatatgtta ctcatcaaca acaacaacaa caacaacaac gccttatecc 120
 actatgtggg gtgggttaca tggatcaact tccgcataa tgttctatca agtaccatac 180
 ttctatccaa accattaatt tcgagatcct ttctgataac cctctttata ttacttttgg 240
 gtctatctct gctcgaata gtctgacttc tatccatctg ggtactctc ctactacag 300
 attctaccgg tcttctctct acatgccta accacctaag tctaatttcc accatcttct 360
 ctacaatagg cgtact 377

<210> 19380
 <211> 196
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19380

tatctctnta gctattcata tggtcataac gattcactcg gatgtctgat tcaagcgcat 60
 aatataacca gacctcgat attgaacaat ggaagctctt gagcaaatcc aatgttcata 120
 acrtttaaat cggaggtacg attcatgcgc ataatatato gagacgttcg aaatttcaaa 180

tggaactctt gaacaa

196

<210> 19381

<211> 255

<212> DNA

<213> Glycine max

<214> 19381-19382

<215> 19381

tttgttatga atttcgagtg ttctgataa ctatcgagga ctatcgaga ttctgagaaa
aaagttattga catttgaatn tgctcatagc attcgttgtc aattacgagc gtctagatat 120
attaaaggat tcattcggac atccgagtaa aaagttatta tctttttatt ttgctcagag 180
cttctgggttt caatttcgag catctcgata tattacagga ctcaatcgga tatccgagtc 240
aaaagttatt gtctgttggg attgctaaga gcttcggggt tcaattacga gcgtctcaat 300
atgctacggg acacaatccg acatccgagt aaaaagtatt gtctgttgaa ttact 365

<210> 19382

<211> 412

<212> DNA

<213> Glycine max

<400> 19382

agcttcagaa ttcattttcg cgcgtctcaa tagattacgg gactcaatca gacatccaat 60
caaaacatta ttgtcgtttg aattagctca gagcttcaga attcaatttc gatggtctcg 120
atatattacg ggtctcaatc agacatctga gtaaaaaagt tattatcggt tgaatttgcg 180
gagagcttca acattcaatt tcgagcgtct cgatgtatta cgggacttaa tcagacatcc 240
gagtaaaaag ttatcgtcgt ttgaatttgg tcagagcttc aacattcagt ttagagcgtc 300
tcgatatatt acgggactca atcagacatc cgagtaataa gttattgtcg ttagaaatcc 360
tcagagcttc ggattcaatt tcgagcgtct tgatatatta cgggactcaa tc 412

<210> 19383

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19383

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 caattgatca ttagaaccaa caaagtgagt ctgatttca ccagacaaca ccttntctct 120
 tacaaggtca cagtcctatc ctatctggtt actccctca tttaagactc cattagaagc 180
 gcttctggtc ccttctggtc ccttctggtc ccttctggtc ccttctggtc ccttctggtc 240
 ccttctggtc ccttctggtc ccttctggtc ccttctggtc ccttctggtc ccttctggtc 300
 caaatttccc ttcaagagtc agaggttagc ctcttatctg atgggtgacc taaccaatca 420
 gcatcagagt 480

<210> 19384
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19384

cgaacaaga tgttgagagt gtntgacaga aatcacatc tcattttgaa gtccctctct 60
 ttcaaaaata gaacatttaa aattgagatt gatgtgatag aacagaagtg ttttaccact 120
 acagtaaaca gtgaagagtg gttatggcat tacagatntg gccatttana ttttagagat 180
 ctgattaagc taaactcaag agaaatgggt ctgggnttgc ctacagatcaa gccctnctagt 240
 gaagtatgtg atgggttatt acagagtaag caatcaagag gcactttcaa acaaaatgta 300
 ccaatcaggg caaaagagaa acttganggt gattactctg atgggtgtgg ccttatgcan 360
 actgaatctc tgggttgaaa tagatacttt catatcctta ttgatgaatt gac 413

<210> 19385
 <211> 470
 <212> DNA
 <213> Glycine max
 <400> 19385

tgcacaaatt caagtagaag agagatatgt tgcctattct attactttgt aatgatctc 60
 aaaaacattat aatcaattac actacatatg ttgaactcat tgcctcctag aaacttaag 120
 atgaatcaat tcttttaaca ccttgaatc atatttaataa tgcataaaaat aaaaattaac 180

ctagaacaat catcatgtta gtctataaca atcaatacaa ataccacata tattaaactt 240
 gtttgacatt gtaaaattat taaaccaaaa staagacott aagacacata ttcatagttt 300
 tatggtttgg tccaacaata attcttcatt cgaagaatatg ttaactactgt ttatattata 360
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt

<210> 19387
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19386

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 atataacgag agcctcgaaa tgaatatgt aagctctgaa ctagtccaaa cgacaataac 120
 ttntactcg gatgtctgat tgagtcocgt aatatatcaa gacgctcgaa attgaatgtt 180
 gacccctctga gcataattcaa acgacaataa cttttttctc ggatgtttga ttgtgtcccg 240
 taatatatcg agacgctoga aattgaatgt tgaagctctg agccaattca aacgacaata 300
 accttttact cggatgtctg a 321

<210> 19387
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19387

attcagctta acattcaatt tcgagcgtct cgatatatta cgagactcaa tcttacatct 60
 gagaanaacg ttattgttgt ttgaatttgc tcagagcttc aacattcaat ttcgagcctc 120
 tcgatatgtt acgggactca atcagacata cgagaaaaaa gttattgtcg ttgaattag 180
 ctccagaagt caacattcaa ttccgagcgt ctcgatatgt taacgggactc aatcatacat 240
 tcgagaaaaa agttattgtc gtttgaattt gctcagaggt tcaacattca atttcgagcg 300
 ttcgatatg taacggggct taatcagaca tcgagtaaaa aagttattgt cgttcaatt 360
 auctcaaaqa tcaacattc aatctcagc 390

<210> 19388
 <211> 191
 <212> DNA
 <213> Glycine max

ttatgaaga gaa gaaatg gaaatgaaatg aaatgaaatg aaatgaaatg
 gaaatgaaatg gaaatgaaatg gaaatgaaatg gaaatgaaatg gaaatgaaatg 150
 gaaatgaaatg g 191

<210> 19389
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 19389
 agcttctgtt ttcttttttcg agcatcttga tatatgacgg gacacaatcg gacatccgag 60
 caaaaagtta ttgtcatttg aattttgtga gagcttctgt attcattttt tagcatcaag 120
 aattattaaa tgactcaatc agacatccga gtaaatagtt attgtcgttt gaatttgctg 180
 acagcttctg tattcaattt cgagagtctc gaattattaa atgactcaat cggacatccg 240
 agtcataagt tctcgtcgtt tgaatctgct cagagctttt attttcaatt tcgagcgtct 300
 cgatatatta tgggactgaa tcggacatcc gagtaaaaag ttatggctct ttgaatttgc 360
 tttaggtcac tgggtctaat ttgggtcgtc tcattatact atacgactca atcggact 418

<210> 19390
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19390
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 ttcttgacgc tagaaattga atacagaagg tctcaccaaa tttaaatgac aataactntt 120
 tactcagaag ttgtatgtg tccgttaata tatctagatg ctcaaaaattg aadacagaag 180
 ctctgagcaa attcaaacga caatagcttt tgactcggat atccgattga gtcatttaat 240

aattogagac gctcaaaatt gaatacagaa gctctaagca aattcaaatg acaataaactn 300
 ttgaactogaa tytccgattg agtcatttta taattogaga cgtcaaaaat njaatgcacg 300
 agttctcacc aattctaaat gacataaact ttttactcag aattctaat 400

19391
 407
 DNA

<223> unsure at all n locations
 <400> 19391

tyccaaccca tygaagctcc taatatctcc cacactnttt gtgggtgggccc attcttggat 400
 gacottgatt nctccagggc ccacttggac cccatttcta ccaactacaa accctaagga 120
 aactatatta totacacaaa aagtacactt ctctatattt gcctagagggg tgttttttct 180
 cgggactgaa agaacttggc tgagatgtcc taagtgatea totangetcc tactgtacac 240
 taaaatatca tcaaaagtaaa caactacaaa totacctatg aaatccctta agacatgatg 300
 cataagcttc aaaaagggtgc ttgggtgcatt agtgagtcga aaaggtatca ctaaccattc 360
 atacaaaacca aactcgggtct tgaaacgngt tttcactcat cac 400

<210> 19392
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19392

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 atatctcgag acaactcgtaa ttgaaaacag aagttctgag aaaattcaaa cgacaataac 120
 tttttattcg gatgtccgat tgagtatgtt aatatatoga gacgtctgta attgaaaaca 180
 aaagcttgta gcaaattega acgacaataa ctttttactc ggatgtccga ttgagtcocg 240
 taatatatcg agacgttagt aattgaaatt agaagctctg agcanattca aacgacaatt 300
 acttggtgact cggatgtccg actgtgtccc gtagtatttc gagacgctcg atattgaaca 360
 ctgaagctct gagaaaaagc aaacgacaat aacattttac tctgatg 400

cgtaatatat cgagacgctc ggaattgatt atcgaagctc tgagcgaatt caaacgacaa 300
 taaotgttac tggatggct gatagagtc cgtacta 337

<10> 19399

<11> unsure at all n locations
 <12> 19399

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 gaaatntct catagccttc aacatttcaa gtgttgagc gttttgatat nattaagata 120
 ccttcaatcg gacattccga gtaaaaaagt tattggttgt tgaatttgtt cagagcttcn 180
 gcattcaagt ccgagcctct cgatatacta cgggactcaa tcagacctcc gagtaaaagg 240
 ctattgttgt tgaatatgc tcaaaaacttc gacattctag tccgagcgtc tcgatatatt 300
 aagggaacta atcagacata cgagttaaaa gttattgtcg tttgaatatg cttagagctt 360
 ctgtattcca ttgagcgtc tcgatatatt ac 392

<210> 19399

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19399

ggcatgttta tgcttgtggg attctnntgt gatagtgaat tttggcggga gaaatgttga 60
 gigaatagat aaaagtaact taccynngat ttgtattttt tatgaggtga attggtgttt 120
 ttacatttgg agttctatag tagcataggc atttgtgaca cttttttctac ttgtganatg 180
 ccgagtattt gtatgctgca acttcttgca cnatgtcant gtcatttgg ctaagaaaga 240
 ttgtttggag gatacttcta gtgtgtgcaa taagggaag cacattagat ctattgttga 300
 tatatagata ctgcacaaag agcttgccaa agaattccgg tgttctcatg aacgaagtaa 360
 gcatatagat acaacgfatc atttcattag agagtgcatt accaagaaaa gaagtagaat 420
 tgaactcatg gaatactcaa gata 444

<210> 19400

<211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19400

ccagaagaag ccataatcaaa ttatgaactt ccaagagaat ggaaagcttc aagagatcat 240
 ccccttgaca acattattgg tgatatctca naaggggtaa caactagaca ttctcttaaa 300
 gatntatgca ataatatggc ttttgtgtct atggttgaac ctaaaaatat aaatgaagcc 360
 ataatagatg atcattggat agttgctat 339

<211> 19401
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19401

ttagagacct taggcattgca agctntgagt tctatggccc caatgacatc tatecnccac 60
 atggaaaaag gccaaaggtgt ttacatgaca ttcagaggat gtggcgggaac attgacattg 120
 tccgcgtacg cttgacattt atggcattac cttacatggg cgcagcaatc gctttccata 180
 gtgagctagt aataacctgc tctaaggata ttcttgcca taccatgcc attggcatgt 240
 gtcccanatg caccoccgty gatttcccta atcatgtagt tgcctctctt ggcattctatg 300
 catgcgatga gggtcattgt gtcgtttcgt ttgtacacga tggtaaccact cacatagaaa 360
 ctaglatcca atctccgtaa cgtgcttttg gcattgtcgg aaatccctgg tggatattct 420
 ttgttctcga catactggct aat 443

<211> 19402
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19402

[illegible]

nttatctggt	ggattcaactt	ttgatcaca	ctgtaccata	ttgaatatca	ttagtcacca	60
canaaggagc	aatccacttt	gacctcaact	tacctctgt	gagtccaagc	ctagagttat	120
acaataaaac	ttctgtgcc	accacgaagt	ctctcttagc	gatcaaacta	tcaagggaact	180
tcttgggtctt	ctcttgttag	aatttggaat	tctcataggc	ttctaaacgg	atctcatcta	240
actcaacttag	tgggaacttc	ctttcccttc	cagcttgatc	aatagagaag	ttgcaggtct	300
ttacagccca	gtaagctttg	tgctctatct	ctacaggaag	atgacatgcc		350

agcttgtgca ttcaatatcc tgatgagggg gtccctatcg ttctcaagac tggactaata 60
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ttccatattg ttgttttcaac catgaagccc ccaaatgtcc aggaagatca tatcttttta 180
aaqgcctttc ctcatctctc agagggagtg gcaaaagatt ggctgtaata ccttgcctcc 240
agttccattt tcagctttaa tcagcttcaag aggggtgttc ttgagaaatt ctccctctca 300

tetangacca ctgccatcag aaaagacatt teangcatca ngcaacttag tggagagAAC 360
 ttgtatgagt actgngaaaag attca 385

<210>
 <211>
 <212>
 <213>

<210> 19406
 <211> 358

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 gbaactcaca ttcttctctt cgattatcat atcttccatt cttacatcat gagtgaacaa 120
 caacaagatc aatcaactcaa tgtacgcagt ccttattact ttcacccggg agaaaatcca 180
 gggatagctn tgggttctcc gggtcttgat tcacccaatt ataattccatg gaggtagctt 240
 atgcttattg cattaagcac gaagaacaaa tatgagtttg tggatggctc tattgaaga 300
 cctgcacacg atcatgaact tcattgtagct gggaagggtg caataatatg gtggcttatg 360
 gttggtcatt tagctctctt tcattagaaa aaataact 397

<210> 19406
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19406

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 aaaagttatg accatttgaa ttgctcaaga gccttcacatag ttcaatttct agcgtctoga 120
 tatattatgc gcttgaatca aacctccgag ttaaaagcta tgacctatng aatnctoga 180
 gagcttccgt tgttcaattt cgagcgtctc tatatgtgat ggcctaaat cggacatccg 240
 aagtaaaagt tatatccatt tgaatttctc aagagcttcc gtgttcaatt taagcgtctc 300
 tatattgatg cgcctaaatc ggacatcga gttaaaagtt atgattcatt gatattcg 360

<210> 19407
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 19407

ctattacaca cactactgtaa tcgattacca gaggatggtt tcagagaaca ttctcaacag 60
tcacatctta tctcttgatt ctttaattggc catcaaggac tctatctat ctcaactaac 120
attctgaaaa gggattaaga gaccgatggt ctcttggtgt gaaagaattc taaca 3 5

<210> 19408

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19408

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tggaatctcc gctgcctgct taacaaatta aaagagaaat cagtacatgc attacagtat 120
aaaagaattt tcataatgtc attcaatata aaattataat atactaacct ctgatgctat 180
ttataagaaa taagttgtaa tgtacactaa tagattcaga ggtagtatca taaatttata 240
aatttttata ataattatct taaaaatcat actaacctta atttttaatt gattgattga 300
tactgaccat gttaaagggtt ttcatgattt gatccaatca caatatgcaa tanatnggtt 360
gtctctctatg ataactanta caaaaatcat accaataata atttctaatt gatagaatac 420
aagtatttat agacacaaca tagaagcttt actcaaat 458

<210> 19409

<211> 326

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19409

tnctgaacag attgatcagg tcttccatac agtctagtct gattgtctcc ttatccatca 60
acatcaactgg ccttggaatt caaattctca atttccacct gttcttcata ttcattgac 120
gtctccaatg agattgcttc tctcgacaaa aatggagtggt gctggtcatt ttctcccca 180

gaataatctt cataattggc tgcagaacct aaatggtcgy aacctatgata attactttct 240
 aaacatcttc ttattcttga tgaacttttc attaaatcta gcttccagaa aacctattat 300
 ataattcaat cttaatttaa tcaaat 360

<210>
 <211>
 <212> DNA
 <213> Glycine max

<323> unsure at all n locations
 <400> 19410

agcttcaaga attaatggcc ttatcaaaact atttggttccc cgaaggcaat tcaattaata 60
 ggctcccat ttttaattga gtgggttacc actattggaa aacctgcctg caaatcttca 120
 tagaggctat agattttaa acattgggaag ccattagaaat agggccttat attcccacca 180
 tgggtgctag aaatataaca atagaaaagc atagggaaga ttggagttag aaagaagaa 240
 gactagtaca atataactta aaagccaaaa acataattac atctgccttg ngaatggatg 300
 aatactntan ggtatcaaac tgtaaaagtg aaaatatatg tgggataccc tacaagtaac 360
 acatgaaggc acaacagatg ttaaaagatc taggataaac acattaactc at 412

<210> 19411
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 19411

agcttatggt gtgatttctc atgtctctta ccattagtaca atcgaactga agatgcgtct 60
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 taaaatttga tatccccccc acattcatca tatattttta catttattaa attttaaaga 180
 tattgtaac ttatcaate ttaatatgac tatgtctttt aaattatata ctatgatata 240
 tctcattaat aaagaacata gtgcttgatg tatataaatt atttgcatac ttaccttttc 300
 aattctaaaa gtgtgggtgtc ttgatctat ttatatttac tataatacca tacaatattt 360
 acgattaata atcaaaaacat ctatgattaa t 391

<210> 19412

<211> 390
 <212> DNA
 <213> Glycine max

<400> 19412

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

1 aaatctgctt tctctctgagct aagatctctt cctctctgagct tctctctgagct 15
 2 ctgtctagca tctctctgagct tctctctgagct tctctctgagct tctctctgagct 240
 3 aagatctctt acactcttcaa ccaagaaatc acactcttctc ctctctctctt agagtctgtg 300
 4 tctctctgagct tctctctgagct tctctctgagct tctctctgagct tctctctgagct 360
 5 atacaccaat gtgtctatcaa gataaacaac 390

<210> 19413
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19413

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 2 caaagtactc aaaatagatc gtgaccaaga atacctcgct tgtacaaatt tctttgagca 120
 3 acctggattc aaaatcaact aaccaccaat acacacctca atagaatgga gttgttgaaa 180
 4 ggaagaacaa aacaatcatg gacatggtga ggtgcatgct gaatgccaaa caaatgccta 240
 5 aggagtcttg ggtggaagca attgctaccg ctgtctacat tttgagttagg tgcccaacan 300
 6 aaagtgtgtg tgataagaca ccagagtaag cctggaatgg aaggagacca tcaatcagac 360
 7 acctcagatt tgttgggtgc atatcataca cacatgtttc aaac 404

<210> 19414
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19414

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<223> unsure at all n locations
 <400> 19419

tgaaaggcaaa ctggatgcgt tggccaactt ggtaacctat ctggccttga atcacaatac 60
 tttatctgtc gaaagggttt gagggttggg ctctctgtgt tgcataata cagaccttgg 120
 ttttctgtgt ttttctgtgt ttttctgtgt ttttctgtgt ttttctgtgt ttttctgtgt
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 gaaacaacaa caacagcttg ctcttctctt ccaaaatgtt ttgggcccac gcagaccata 360
 ctctcttcca ccaatccaac aacagcaaca accccagata tagcccaaaa gtgagggccc 420
 tccacaacct tccctogaag aacttgtgag gcanatgaat atg 463

<L10> 19420
 <L11> 467
 <L12> DNA
 <L13> Glycine max

<223> unsure at all n locations
 <400> 19420

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 acaacttccg ttggcccatc gggttgtygg tgacaagtgg ttgaaaataa caatttagtg 120
 cccaacttgc tccacaaagt cctccaaaaa tggcttaaga aattagagtc cctatcacta 180
 acaatgtctc ttggcaaac atggagtctc acaatctct tgaaaaacaa atcagccaca 240
 tgggaagcat catcaacttt cttacatgga ataaaatgag ccattntaga aaacctatca 300
 acaaccacaa aaatggaatc tctaccatig cttgtttttg gcagcccccac aacaaaatcc 360
 atggataaat caatccaagg atacttcgga attggcaatg gagtatacaa tcatgaggc 420
 tttaccttag actttgcctt tttacataga atgcaatgtt cacaacaa 467

<L10> 19421
 <L11> 444
 <L12> DNA
 <L13> Glycine max

<223> unsure at all n locations
 <400> 19421

acatactgtg aaatattatt agtaagaaac atagccctct atatttgata actaaacctt 60

[illegible]

ttctctctttt gtttcgtctt cctgcagctc gctgatattt tcacgaagcc tctatctcca	60
gctctctttc aagggtctctg ttccaagctg ggaatgatga acatccattc ctagcttgcg	120
gngggctctc aacaatagct tgttagttag aaaaagctgt tagagttagt tttctttctg	180
gtgtaactaa ctaaccaccc tttttctctt tccctcatat ggtataaat atcttaagaa	240
tcagtaata aagacatgca attatttggc catctcacgt acacttgctg cgtttctctc	300
tcccttatgg ctgttgatcc atttaatat ttgtccgtgc tttccctgg acgacgttnt	360
cgagtagaga aatgatgcat tt	382

ntgaaggaact	cacattgngt	tgaagcaatg	gaagaagatc	taatgtctat	tgagagaaac	60
aagacatgga	gtctcacaaa	gtaccaaca	ggaaagaaag	ccataggaat	aaaatgggtc	120
tacaaaanta	agttgaatcc	ttagaggagaa	gtaacaaagt	tcataggaag	aatgggttga	180
aagggaattc	tgcagaagga	aggctctgat	tatgatgaag	tattttcccc	tatttctand	240

ttggaaacag ttagacttgt aatagcaatg gctagctaca attgctggga agtacaccaa 300
 atggtatgtaa aatctgcatt tcttaatggc tcaactagaag aagaagttnt tgtcaactcaa 360
 caannagggg ttgtgagaaa aggtagagaa acagagggtt acaagctgca taaggctttt 420

<210> 19424
 <211> 12
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19424

agcmtaagt taattcaaat gacaataact ttgactcgg atgtccgatt gagtcattta 60
 ataattcttg aggttagaaa ttgaatacag aagctctcac caaattttaa tgacaataac 120
 ttttaactca gaagtctgat tgtgtcccggt aatatatcta gatgtcctaaa attgaaaaca 180
 gaagctctga gcaaattcaa acgacaatag cttttgactc ggatatacga ttgagtcatt 240
 taataattcg agacgtcan aattgaatac agaagctcta agcanattca aatgacaata 300
 actnttgact cgaatgtccg attgagtcct tntataattc gagacgtcca anattgaatg 360
 caggagctct caccannatt aaatgacaat aactntntac tcagaagctct aatggtgtcc 420
 tgtaatntat cta 433

<210> 19425
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 19425

ggacctataa aattcaacta tggaaactgc tcttaacaca agtctgttgt tctttgactg 60
 ctgacagcta gagaattttc tttcttaact gcttcgaact gttaaagtcc atgttcattg 120
 acttaacagt acaattaat tctttaaaag aaattgagtc aagattcttt aaaacctta 180
 gtgttggtac ttgttaatgt ggctccttgt agagcttgta agctctggat cttcttcate 240
 aatgaagtcc ttgcctcttc gaagatcaat ggcgcgggaa tggaaaataa gaaaaggtta 300
 ttggagatgc caatttaacg agaagatgag tctcgaacaa gctcaacacc ataggaagtc 360

atgcataaga gcttgaaggt aggagaagat ggggtgga

397

<210> 19426

<211> 456

<212> DNA

<213> Glycine max

atgcataaga gcttgaaggt aggagaagat ggggtgga
gggttcatt tctggcgcta aactgttggg agtgggaagc catcttctca attaaatttc
tgggttcagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc
tctccatatt gctgagtcct tcataaaaat attggagaag aagctgtctt gaaatctgat
ggtggggggc aatggacat agtttcttaa atctctctca gtactcatac aggtctcttc
cactaagttg tataatacct gagatctct tctgatggc tgtggctctg gaagcagggc
aaattgttct taagaatact ctcttaaggt cctccagct cgtgatggac ctggagagaa
ggtaatacaa ccagtccttt gccactccct ctaatg

<210> 19427

<211> 407

<212> DNA

<213> Glycine max

<400> 19427

agcttaatgg tgcaatccca atcgaaattg gccaaacttc taagttgtca atactgaatt
tgagctggaa tctcttgggt ggatcaatc catttgagat tacaaagttg agcaatatta
cttctctgaa ctggcaaac aacaatctaa gtgggtccat accaacatcc attgacaact
tgaaatttct cttagaact caactcaggg aaaacaaact aagtgggtgtg ataccaagca
tgccgggggag ttgacaggtg tcaatgaatc ttagtagcaa ccactttagt ggtaatactc
ccaaacattt tggtaattg gatagcctgc aagtcttggc tctctcaaat aacaaatttc
ctgggtccat tcccaaccaa ctaactggaa tgtcagctct gacatag

<210> 19428

<211> 475

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 19428

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aaagcttac atcaaccact tgggtactg acctacttt atggtcttga tggggcttat   60
aaagttgaa agctctggag gaaagagga tgcctatgtt gttgttcatg attctctcag  120
                                     *
                                     *
                                     *
ctctcttctt tttttttt tttttttt tttttttt tttttttt tttttttt   60
ctctcttctga gccattacac cacaacaaaa tggcatagtt ganaggaaca acaggactct  360
gaaagaagctt gctatgttca tgccttcatgc caaagaactt cccctataatc tctgggctga  420
agccatgaac acagcatgct acatccacaa cagagtcaca cttagaagag ggact      475

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<210> 19429
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19429

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tncatcaatt tatctcttat ttcagcctct gttgaagtgt catcttccatt caccaatctg   60
gataggtggt ccgctaccac aatttcagaa cctttcttgc ccttgatgac taaatcaaat  120
tcttgaagca gcagtatcca tctgatcaat cgtggcttgg aatcaacttt gcataacaaa  180
tattttattg ctgctgtgatc agagttaaac actatctttg atcccaccag ataagatcaa  240
aatttctcaa gtgcaaacac aattgtcagt aattctttct caatgggtggc atagttaatc  300
tgagcatcat tcaaaactct gctagcgtaa tagatgcgat gaaacattct gctcttctgc  360
tgcctccagca cagcacctac tgcataatca gttgcacac acatcaattc aaactcttgt  420
cgctagtctg gtgctgtaat cacaag      446

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<210> 19430
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 19430

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ttcttatctt gatcatctta actcagatga tgcctaatct ccctgggggg ttacctgaaa   60

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catggatgct atggtggcaa gcacattacc catctgattt tctctctctac gaatgtggty 120
 gaaagagacc tcatcaagaa ctcaatcagt ttcttgatgt acgcttgata gggatatcaac 180
 tagagatccc tagtttccca ttctcccttc agctggcgaa ttaccaaggc tgagtctcty 240

<211> 19431
 <212> 393
 <213> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19431

tctangcat ggctctgtaa gaactccact accctagtta gaagtgggt tcatcagacc 60
 aagcatgaat actgcttatt caccattaga tcatggaata acttagtcct tctactaaty 120
 catatcgatg acatgatcct gtcaggacca aattctagac tagggcaagg tagtgagacc 180
 caattcaatc tatgtctcaa ttgaggatcc ttggcaactat gaaatattat ctgggcttat 240
 aattatctaa atgcaacaga ggtatctcac ttctctagag aatatacaat ctatctcttt 300
 tggaagatac atgtttattg acatgcaaac cgatcaatct atcgatggat ccagagactag 360
 atacttaacty cctgataaat caatcttgat gat 393

<210> 19432
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19432

tggtcataac gtttcaactg gatgtcggat tcaagcggat aatataatga gaagctcgaa 60
 attgaacaat ggaagctctc gagcaattcc aatggtcata acttttaact cggaggctcg 120
 attcaggcgc ataatatctc gagacgttcg aaattgaaca atggaagctc tcgagcaatt 180
 caaatggtea taacttttca ctgggaggtc cgattcaggc acataatata tcgagagctt 240
 cgaaattgaa caatggaagg tcttgagcaa ttcaatgggt cataactttt cactcggagg 300
 tcnatctcan ggcataata tctcagagcg ctcgaaattg aaaaatggaa gctctttaac 360

aattcaaatg gtcataaatt ttcaactcgga tgtccgattc acgcacataa tatatcgaga 420
 cgctggcaat tgaacaacgg aacgtctcga gaaat 455

<210> 19433

<211> 293
 <212> DNA
 <213> Glycine max

tagctacacg caccctatnt aaggatagcc tatctatata tataatatat atctgaacat 60
 ttattacaaa aataagggtt aattataaaa gatbaagaaa gatgacaatt acaataaatt 120
 ttccataac atataatgtt ttatttggca tagcttaact tgaaaataga totattaaga 180
 caatgaataa aataataaaa ctgtcaagtt gtcaactgat taaagaatag tatattaagt 240
 cacagtaaaa aaatagtata gtatagtagt agctttcaag tttttaacta aaatattata 300
 ttttaataat taatataaac gtattaagtg agtaaatgtt cacgggtatg ttgtacata 360
 ataatatata ttacaaatac atgtgtacca gacgtcttta gctggcatat tgatttaata 420
 ttgcacatc acaagcatag agcataaact agcattatgg ttctctagat gatgt 475

<210> 19434
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 19434

ctgaagcacc cattatccct agctatccctg gatgggttga aatactgccc taagtactag 60
 cgaaacaaga agactgacag ggtaacgaag taccacgtct ctcaagagaa ataacaagcg 120
 ttgaagacta aactataaat aaaaacatta ttccattgta caaagcatat ctttcttggc 180
 cttctggcta agatcaagtg tagcatctgt tcttatcagt tgaatatttg atatgtggac 240
 cattggctca cagcatatta aattaatctt ttgaggggga gggctcatta tag 293

<210> 19435
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

agtataacaa caattaanaa gganaggagt ggctaagagg aagtttaaca actttgggtc 420
 ttctagttgg aaagac 436

<223> unsure at all n locations
 <400> 19441

ctcttgctta ccccatgttg agtttgctta caataaaagt gttcatagca ctactaattg 60
 ctctctcttt gaagttgttt atgtttttta cccactaact ctctttgata ttttgcctat 120
 gcttaatgtt ctctatttta agcatanaga aggtcaagta aaggcgggtc atgtgaagaa 180
 gtttcatgag agagtcaaag atcaaattga caggaaaaat aaaagctatg ctaaaacaagc 240
 caacaaaggg agaaagaagg ttgtcttcga acctggagat tnggtttggg tgcacatgag 300
 anaagaaagg tttatggaac anagganac atagcttcaa ccaaggggag aatggaccat 360
 ttaagtgtt gaagaatca atgacaatgc ttacaaagt gagctaccca gtgagtata 419

<210> 19441
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19441

gtgtntgtct cgtgcacctt ttttaagggac ctanaggta tagagctaac tangoattta 60
 gtgataaccc ccaaggtagt catctctctc ttgatgggtc cttagaggtat catccctttt 120
 gaagaacata ttgcagtagt agggactact agtaacaata agttttcaaa gagaaaagct 180
 cttagatgagg gttcaactga atcaagcaag tctggagacct agcatgatca cagattcacc 240
 tccgtctctt atgttcccat gaaccgggt atagggcaact ncttccactc acagtgtgtg 300
 caaatagtgt tgggtgttgt gtgcacana tgaataaata tttaacctat gcatacattn 360
 tanaacgcac tataagcaac aaagagttta tacacacaag cacataagac aaataaaggg 420
 aaaccaacaa agagaaaaa cagataaaa cattgcacaa gaattaaat 469

<210> 19442
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

tcccaatgct ccatattctt gctatattca gcactcaaaa atttgggttcc ataatggctc 10
 aacagataa ccttaagggt ttctggagtg cccatgtaag tcttcataca ctctgagag 20
 ttgaaaacat cccacatctt aatcttggta tccatgccag cagagagaat caaatggcca 240
 tacttgggga aaaaacctaat agcagacacc cctttgggtg gtccactcca agtatgaatc 300
 aatctctggg gcataataca atgataatta ctctgctttg catccttgng aggcgcgata 360
 caagaacctc ctgtgtaatc cttctcctct tcccatgaa aaagtgcctt atctttaaca 420
 acctcaactn tctctcctcc anaaccactc tctctc 455

<210> 19443
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19443

cagcatccaa ctctgcctga gcaccgccta tcaactctana atcgatagat tgatggagtt 60
 cctcaacagt acgttggaac aatatctcca tgcctttgtg cattccaacc cgtcgagatg 120
 gggaaaattc ctacgttac agaattggtct tataacaccg ctgttccattc tggcacagga 180
 ctgtcacctt atcaaacagt tcatggtaaa cctcgtccat ccattcccca ttatttgctt 240
 gggctctcta ctattgagge tgttgaccaa ttgttttcag agtgacaagc tatgttgcaa 300
 gctctccata agaagctttt caaagctcan actgctgtga aggtgcaagc tgacaaaaaa 360
 cgcattggaag tctctatag tattggtgat tgggtttata ttctgttttt cccctaccat 420
 caaacgtcag ttccaggat gacatata 448

<210> 19444
 <211> 493
 <212> DNA
 <213> Glycine max

tacaccaaag ctcccaaaca tggaagcaac catgagaggt gtctctcttt cataacctat 120
 ntctcttgag gcaacacacc ttccatacca aaacctacc ccataatat catgaccttc 130
 ccttccaacc gcatctgtga aactaaccag atcatctggt gcaaaaaact caagcaaaagc 240
 tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt
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<210> 19447
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19447

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 taattatgac ctctccagca acaggtacaa tctcggatgg aggaatcacc ccaaccttag 120
 atggttgaat ccttcacaac agcagcaaca acaacaacct tattttcaaa atgctgctgg 180
 cccaagaaca ccatacgttc ctccaccaat ccagcaacaa caaaaacagc aacagcccca 240
 gaaacaaaaa acaattgagg cctctccgca accttccctt gaagatcttg tgaggcaaat 300
 gactatgcaa aacatgcagt ttccacaaga gaccagagcc tncattcaga gcttaactaa 360
 tcagatggga cagttggcta cacagttaaa tcaacaacag tcttagaatt ctgatagaat 420
 accttctcaa tctgtccaaa atcacanaaa tgtgagtgcg aatacattg 469

<210> 19448
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19448

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 tctcttcaat tatgtgctta agcaacggaa gctgaaccaa tatacctggc gatattaaca 120
 aaccaagcct cacaataaaa aaaaaggccc aaaacaaaaa agtgtaatcg atattaaaaa 180
 taacacatgc atgaattgaa aaagcatgig ttcaggcatg taaagttaatt gaggcacaaa 240

aatgtgaagt taattgataa gtatgatgaa aatcgaaaag agtgtaataa gtgacgaacc 300
 atgtacatca nggttaacat tcaactcgtg aacttgtttt attagttcag cttgcgagac 360
 ttgttcggga aggtccacat cgaaggattt gattcccaat ttggcgcatg ctttctctt 420

<210> 474
 <211> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19449

ttcactacag ctgtctatct tattaataga ctttcgttgt cttctcttaa ttntgaaact 60
 ccttactttg tcttacatgg cacacacct aactattcat cgctatgtat ctttggttct 120
 aaatgttttc cttacacttg ggatgcacga cataacaaat tcgacctaa aaccttctct 180
 tttgtgtttg ttggatatag tgatatatat aaaggatata aatactttca tctttctagt 240
 aagaaatttt ttatctcatg acatgttgtt ttgacgagt cattctttca atataaaact 300
 aattgtcacc atacaatttc ctctcttaca cagcatgtag ttagcataat tgattcttgg 360
 ctacctcata ctaactccag ttcttgtgca gacctaaaca caataacaac agctnntgct 420
 ttcggtcacc atgctcaaat ctttaatgaa tctcttgc 489

<210> 19450
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19450

tttgaaagca tgtaatcgat acacatgtct tgtaatcgat ttccagtgtt ttggaatgtt 60
 ttacaacaac cataaaaaat ttgaatttaa atttcaaagt tatgtaatcg attactagt 120
 tttaaatatt caaattttcaa atgcgaagag tcataactct tcagaagtaa ctatgtaatc 180
 gattacacca ttatggtaat cgattactag taaggatttt cgaaaataat tcccaatagt 240
 cacatctttt catttaaat ttgaatggcc atcaaaggca tatatatatg tgacttngc 300
 acgaaatttt cttagtntta ctgtctaaa aagtcttacc ctctcaaaaq attcaaagtg 360

tottatcaco taaaattcct tggccaaaac atttgtgatt caataaggaa ttatttgagt 420
 gcttcattgt asaattctac tctntcaaga gagatntctt cttctctctt totta 475

<210> 19451

<211> 19451
 <212> DNA
 <213> Glycine max

tctatagaag gttcattcct aatttctcta caattgcttc accctctaat gagcttggtga 60
 agaagaatgt ggcatttacc ttgggtgaaa aacaagagca agcttttget ttgtcacaag 120
 aaaagcttac taaggcaact gttctagctc ttccttgagt ttctaaaaact ttggaactag 180
 aatgtgatgc ctctggagtt ggagttggag ttgtattgta acaaggtgga caccctatta 240
 cttatttttag tgaaaaaactt catggtgcca cctcaacca ccccacatat gataaaatgc 300
 tttatgcctt aataagagcc atccaaaactt gggaacatta cctttgttcc aaggaattnt 360
 gtattcatag tgatcatcaa tcacttaagt a 391

<210> 19452

<211> 491

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19452

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 atgaagatcc ctaaaagtagc ttgagcttag ctacacatac ctctcttaata gctaagctca 120
 cctccttgag atgagaagct agagcttagc tacacacccc ctataatagc taagctcacc 180
 cccatgacaa anaacatgaa aatacaaaaa aaagtcctta ctacaaagac tacttaaaat 240
 gcccggaaat acaaggctaa aacctatac tactagaatg gcccataac aagggccana 300
 tgaaggaaat acctattcta atattacaa agataaggcg gctcactt agcccatagg 360
 ctogaaatct accttaagge tcatgagaac cctaggacct tcccttggat ctctagccca 420
 atctacttg agtctctac ccaatgcct tggggagtag gattgcata ctctctctcg 480
 tagcttctat g 491

<210> 19453
 <211> 476
 <212> DNA
 <213> Glycine max

atctatctta cttcttactt aagttatgaa ttcccttaga gacaatcttc ttaaataatta 180
 attcaaatga agcaacttga atatgaatat aaagcaataa taaataaagg agattaaggg 240
 aagagaaaat gcaaacctcag ttgtatactg gttcggccac acccttgtgc ctacgtccag 300
 tccccagca acccgcttga gagttccact aacttgtaaa ttcccttttac aagttctaaa 360
 cacacaaggy acaacccttc tttgtgttag agatttctac aacaagagac tcacagtctc 420
 ttaatccctt agagaatgag aagaagaaga ggaacaaatc totcttgaaa gagatg 476

<210> 19454
 <211> 490
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19454

tgaccaatcc anatgaacga ggaactcctt caatactggt aaaaggaaat tottgatttg 60
 cttgataaag gtttaatecg gaaaagcaaa agcccggtggt cctgtgcggc tttttatgtc 120
 aacaaacatt ctgagcttga gcgtggaaca ccccgtttag tcataaatta caaaccactg 180
 aaccaagcat tacaatgaat tatgtacct attccaagca aaaaggattt acttaacaga 240
 ttaaattctg caaagatatt ttctaaattt gacatgaaat ctggattttg gcaatccaaa 300
 tccaagagtc agataggtag aaaacagtgt ttattgtaact ttccgggcaa tacgaatgga 360
 atgtgatgac attcggacta aagaatgccc ctccagagtt tcanacaatt atgaatgata 420
 ttrntaatcc ctattcacia ttgtcattg totacataga tgatgtgtta atcttttccc 480
 acaacattga 490

<210> 19455

<211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19455

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 gggatgagc gggatgagc gggatgagc gggatgagc gggatgagc gggatgagc
 gggatgagc gggatgagc gggatgagc gggatgagc gggatgagc gggatgagc
 ggtctgagaa aattcaaacg acaatatctt ttactctgca tgtctgattc agtcccatca 240
 catatcgaga tgtctgaaat tgaatgttga agctctcagc caattcaaac gacaataact 300
 ttctaattgg atgtctgatt gagttccgta atatatcaag acgtctgaaa ttgaatgttg 360
 atgtctgag caattcaaaa cgacaataac atcttactcg gatgattgat tgagtcctgt 420
 attatctga gagctctgac tatgaatgtt gatgtcttga 480

<210> 19456
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19456

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 acattggcat ggagagcctc ttgaacatct ttctatttaa gatatgcgta cacataattc 120
 tcaatcatg gatcagtcac aatctgcaaa acaataaac atggcttcaa ttctagttaa 180
 gttcatgctt catgcaatgt tgagttttct aaaatctatt aggccagcca aatatttgaa 240
 gcttactgtg ttctttttgg gcagggtctg gagatttgca ttcttgcaata gtggagcata 300
 aatattgtat aaatcaatgt attcaatata ctccccaagt caatctcggg ctgcctcgca 360
 cacaactntcc tgaatctttg atgatgatga atcacaagct ntgttgagat aagctgctnt 420
 ctctdagatg attgcatggc tggcaagata atcacaagct cgtctcagat ca 480

<210> 19457
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19457

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ntgatgggtgt tgagaagaaa tcacatgttt gtcacatca aaaaggggga ttttgtgaat 60
glatgtatad atgattntga tgatgtcaaa agaagaatca aagaagggtc atttgtgttc 120
atgtatata atgtatata atgtatata atgtatata atgtatata atgtatata
atgtatata atgtatata atgtatata atgtatata atgtatata atgtatata
atgtatata atgtatata atgtatata atgtatata atgtatata atgtatata
gattaccaga gactctgaac attgngaatt caaatntaa atgaagggtc acaactgttc 360
aagaaaaaca atttgtgaat cgattacact aattctgtaa tcgattaoca gagaggattn 420
tcaaggaata tcttcaacag tcacatotta tcat 454

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<210> 19458
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19458

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tacctaaacta gccacgatct ttggatttgt cttctatctt tatagctcca tagggcttaa 120
cgtctttaat agtaaggggg ccactccttc tcaattgtaa ttntcgagaa acaactttaa 180
tcttgagttg tagagcaata cttgttgtcc aggctaaat tctttgagga ggatattttt 240
ttcataatac ctcttggttc tttctttgta gagcttggat gattcgtatg ccttgagtca 300
aagttgagaa acctcatggc tcaatgagct tttatttcta ataccactgg taggtggcat 360
tctttnttgt acaccatttg aaatangaa aggccaatgg gtgttttgaa ggttgttcta 420
tatgtcaaaa ggcaatcctc aa 442

```

<210> 19459
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19459

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gggatattnt ntgaaaatg gttatacaaa aacuatattgt ttantaaga gatgaaagtc 60

```


[illegible]

tatgactcgg	tcaattgaga	attcttgatt	tacatgtttg	gaagattgag	attcaatgag	60
atatygggtca	aatggattaa	ggggtgcttg	atgtctacta	nggtatcaat	cttctgtaat	120
ggaagcccaa	tgttggaatt	tatggtatca	aaaggattga	gacaaggaga	tcctttagat	180
cccttcttgt	tcaatgtggg	tgtggaaggc	tatatgtggg	tgatgaggaa	agcattagac	240
aaaaaattag	attctagttt	caatgtgggg	aacaaaggag	tgaagataaa	tatccttcaa	300
taggaggaca	acacaatctt	catgggagag	gctaccttgg	ataatgtcct	aaccatcaaa	360
agcattctnt	gatgc					375

tgctaaccca	tggaagctcc	taatatctct	tacacttttt	ggggtgggccc	attcttggat	60
ggccttgatt	ttctcatttc	taccaactac	aaaacctaag	aaaactatat	tatctacaca	120
aaaggtacac	ttctctatat	ttgcaatagag	gggtgttttc	ctaaaggactg	aaagaacttg	180
ctcagatatt	cccaagctat	cactctatct	ccctactctac	actaaaatat	catcaaaaata	240

tntgctacat atggcatgga agaaaaagca cagggcaggtt atggctaacc tgaacttttgt 420
 tggcaagatg tctcgtataa ccacggctaa caattgggtgc atgagcatgt ggtaacc 437

<210> UNCLE SAM'S LAST WORDS
 <400> 19464

tjanattgac aacggaagct gtccgaganat tcanatgttc ataatntng tcaagaaggt 60
 cagattcagg cacataatat atcgagagcg tngaaattaa ataacggaag ctgtccgagaa 120
 attcaaatgc tcattacttt tcactcggag gtccgagtcg ggcccataat atatcgagat 180
 gtcgaaaatt gaacaacgga agctctcag aaattcaaat ggccataact ttgacacgg 240
 aggtcagctt cagggccata atatatggag acgtccgaaa ttgaacaaca gaagctctcg 300
 agaaattcaa atggtcataa ctcttgacc gaaagtcaga ttcaggcgca taatatatcg 360
 agacgtcga aattgagcaa cggaagctct cgagaaattc acatagccat aactnttcac 420
 tcggtatgtca gattcaagcg cataatatat c 451

<210> 19465
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19465

ntagctntgt ccncaaggct tcatgtagac tggctcttta tcgcgaagtg aacctcggat 60
 cccgttcaga tacaatacta gaaggaattc catgcaacct tattacttcc ttgatgtaca 120
 actccactag cttctccatt ctatacttca tttccactgg gataaaatga gcagatttgg 180
 tgaatcgatc tactataacc cacacagcat catgtccacg actagtcttg ggtaaaactag 240
 atacaaaatc catagatatg ctctccatt tccattctgg aatttccaat ggcttcaatt 300
 ctcttgatgg tccgtgggtgc tcaaccttag ccttttgaca tgtcaaacat ctgtctacat 360
 attcagctac atctttcttc atcccatccc accaaaaact tctcttcaaa ttttggacat 420
 attagtcatt cctggatgga aact 444

<210> 19466
 <211> 406
 <212> DNA
 <213> Glycine max

gagatgctg gctgctgctg gctgctgctg gctgctgctg gctgctgctg
 gacatctc tagttgtcat tgcctgaatg tcaaaccttc taatattaac aagatgatt 120
 ataattatag catcttctgc ataaaaacca ccacttcttc cacatctaat actatcaaaa 180
 tcaatactct ctccacactt ataactcaatc gacttctcat ctcccttatt gtcattgtca 240
 tcatcttcaa ctctatctct tccatcttca tgcataaata cattaccata cgcctcacc 300
 aacacataaa acgaagctcc caaatgcgcg aataaccctt ctctactat tatgaccttc 360
 aaacctaca aaataacaca ttccaaaaca taaataaata catagc 406

<210> 19467
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 19467
 agctttcacc acttatctcg caccagcatg attggagtag cgaccttaag tgtaatttg 60
 tgattaggta tccctgatgt tttcaatgag tttagaaatt tacgtgtcag taatccgaaa 120
 gtaggattga gtagttcacc ttatttatca atgttatcag tgctacaata ctcttttctg 180
 tcatgggga tcaatgataa gacaataatt tattttgtca acaatatctt ttttagaggc 240
 aagaacaact cttttttgca agtaatctgc gttgctatag ttatgtgtca agttgggata 300
 tgttgcatca acaattgctt gcataggatc agtatagtc tttataagga actcatctgg 360
 gatg 364

<210> 19468
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19468

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cccatgcaag	ctgaaagcct	tggaggaaag	aggtatgect	atgttgttgt	ggatgatttc	120
tcagattta	cctgggtcaa	ctttatcaga	gagaaatcag	acaccttga	aghattcaaa	180
cttgaattt	ctcttttctg	cttttttctg	cttttttctg	cttttttctg	cttttttctg	240
cttttttctg	cttttttctg	cttttttctg	cttttttctg	cttttttctg	cttttttctg	300
cttttttctg	cttttttctg	cttttttctg	cttttttctg	cttttttctg	cttttttctg	360
cttttttctg	cttttttctg	cttttttctg	cttttttctg	cttttttctg	cttttttctg	420
cttttttctg	cttttttctg	cttttttctg	cttttttctg	cttttttctg	cttttttctg	480

actcagcttt atcctggctt ctatgggtggt gagcttgtct ttactctctt tttcttgaag	60
cgacgtctcc aatcactctt cttcttatcc attccactga cattgatctt caagaagaaa	120
aggactccat tgatgaagaa gatccacggc ctacaagctc cacatggagc tacatcataa	180
aaagctatgt cttaaagctca tgtgctactt catcgccatc cgataacctaa agtagtgaaa	240
cccccttgtg acaacaaaaat atgcttttgt tgagaataat tgttgaggag ttagccctca	300
cagtaatgga taaccacaaa ttggtacttg cgagatgato ttaaggttgt ataaccttgg	360
agggagcgc tntaagtcac gacgatagtt cacatagatg acttggtaac cctgacaaat	420
atataagcca tcttcagatg gtgagagccg tca	453

agctttacct ttgtttcgtt gcttacaqaa naataaaaata atttccatgg ttggaggatt 60
gtgaaatgac atttagaaag tttaaaggaut tctctcccac tccctccatc ttgacaaaagc 120

ccaagtcagg gttgccatt ataaaatact tgcgggtctt cgagcatgtc gtcagctcag 180
 ttctagtaca ggaatttggg gttgaataaa agccaaatta ttttgtgaac cgggtgcctt 240
 ttgggttcga gattaggtat caaagttada gaaattggca ttggcagttac ggatcacaga 300
 ctccagatctt gttatatttt tttttttt
 ctccagatctt gttatatttt tttttttt

<210> 19471
 <211> 298
 <212> DNA
 <213> Glycine max

<400> 19471
 aagcttgagc cgttcaaaat gccacagtag ctgtaatgag ctatagtggc tatgatatac 60
 aagatgccat tgcgatgaac aaggcatctc ttgatcgcctg gtctgcgcgc tgtattgtta 120
 tgaacaagca tgtcatttta ttccgycgatt ttatgctttt gggttgcctta tattttattg 180
 tctacgcttt ttaacgcagc atttctgac ttgaccttcc ctgctgtata ggtataatgc 240
 catcatctac aaccatttga atgacacatc ataccgaata cttacgccta atacaact 298

<210> 19472
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19472

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 caataaaaaa agtgtcatat aacctgctta ccgtctctct tgatttttgt cgaagaccat 120
 gccatttttg aattgcatgt gcactctcta cataagctgc atttgttcca gtacaaacaa 180
 tcactccagc aacaacatcc tgattgctga atcttgcctc agctaactgtt ccgaactgtt 240
 cattaaacta naccacatca ccaagtttng tctctgggttc aagacattaa gtaaccagga 300
 aattttaaag aaaaaaaatt gaaactacaa aactcattga tctaaatttt ccgcatata 360
 gaaactgaan natattctca naggcagact anaggggaaa aagaaaacaa gaaaaacag 420

aagagaagta cactgact

433

<210> 19473

<211> 450

<212> DNA

ttactatata aactcagctt tacttgggtga ttgtgaagtt ttgaaaaatt atttctgcct
attcaacaaa ggctccatc tttatggaga ggttaccact actggaaaac ccaaatgcaa 120
atttttatcg aggcaataga cttacatatt tgggaagcca tagaaatagg gccttatata 180
cccaccacag tagacagaat tacaatagat ggaagcacat caagtgaaag cataacaata 240
caaaaaccta cggatagatg gtctgaagag gataaaagat gagtacaata caatttaaaa 300
gccaaaagta taattacatc tgccttgyga atggatgaat atttcacggt ttcaaattgt 360
aagagtgcta aggaaatgtg ggacactcta caattaacac atgaaggaac aatagatggt 420
aaaagatcta cgataaacac attaatcat 450

<210> 19474

<211> 446

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19474

ggacctataa aactcagctt tacttgggtga ttgtgaagtt ttgaaaaatt atttctgcct 60
atgcagagta taacattttc tgtttataac ttattgatgt attaattgca ttgatcatca 120
ctgaaaaatg ttagattttg gtgtctcatt tcttgttttt ataattgattg ccaggatcac 180
tattttgatg tgataaccaa catagttggt ttggttgctg ctgtcctacg tgataaattt 240
acttgggtgga ttgacctat tggcgctatt ttgattgcaac tctacacaat ttcaaattgg 300
tctaaaacag tgcctgaaaa tgcctaggtct ctctttctct ctcttttatto tgcgtcttat 360
gcttgyttca attacgtact ctattttaa atgatggttacc tcttgyntta gtttcttgg 420
ttggacaatc agctccacct gaagtc 446

<210> 19475

<211> 451
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19475

atttctaat tttttctaaa ttttttccaaa atcattgtaag cacttctgata ttttttccaaa 120
 aagtcaaat acaatagtgga aagaagcatt gcaaaaagga gaaatctcaa gtgagcatga 240
 ctgcaatcaa gagagcagga aacactaaat gaagctcaca ttatgggtaca ttacttagtt 300
 tagtttctct tttttcttcc atgattgatg tgccttgaaat aattgaagaa gatgacataa 360
 gtttagagca naaggtctaaa atatgtgctt tngtaaatcc tgtgcaagct ttgcaatntg 420
 ttttcatctt gcacttgatg aaaaatattc t 451

<210> 19476
 <211> 451
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19476

tattgcanat gaatcatatc tcattctctg ttttcatgcc ttggatttta tntgtaaatg 60
 aattaagcag ctgtttgaat aatgagctctg ttatttactt catattaatt ttacgtgtca 120
 tttgctgcag actgattggg aggytggtta cttcccgttt acgtgcact ttagtgaaga 180
 ctaccacaagc aagctcccaa agtgtaaat cccacaaggt ttcttccacc ctaatgttta 240
 tcttctggg actgtttgct tgtctatact taatgaggat agtgtaagta catctctctt 300
 gataattgca tgaactgcttg aaaccaatnt attttttggtg atattacatg ctaagcaaac 360
 agttaagaat tataggttta ttgtctata caggggtgga gaccagccat aacagttaag 420
 canattcttg tgggcaccca agaattactt g 451

<210> 19477
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 19477

taacttttat tccataacga aattcaataa atacgcctcc tatccttaat ggagaaagtt 60
acctaacttg ggaacaccca atgcaaatct tcattgaggg aatagaccta cacacttgcg 120
gaggaacaccca atgcaaatct tcattgaggg aatagaccta cacacttgcg 180
gaggaacaccca atgcaaatct tcattgaggg aatagaccta cacacttgcg 240
gaggaacaccca atgcaaatct tcattgaggg aatagaccta cacacttgcg 300
gaggaacaccca atgcaaatct tcattgaggg aatagaccta cacacttgcg 360
gaggaacaccca atgcaaatct tcattgaggg aatagaccta cacacttgcg 420
gaggaacaccca atgcaaatct tcattgaggg aatagaccta cacacttgcg 480

<210> 19473

<211> 442

<212> DNA

<213> Glycine max

<220> unsure at all n locations

<400> 19473

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agctcacctc cttgagaagc ttccttaaga agattcctaa agaagctaga gcttagctat 120
acataacctct ctaatatgcta agctcacctc cttgagatga gaagctagaa cttagctaca 180
cacctcttat aatagctaag ctcaccccca tgacaaanaa catgaaaata caaaaaaaaa 240
gtccttacta caaagactac tcanaatgcc ccgaaatata aggctaaaac cctatactac 300
tagaatggcc aaaatataag gccanacga agganaaacc tattctaata ttacaaaaga 360
taagggggct catacttagc ccatgggctc gaaatctacc ctaaagctca tgagaacnct 420
aggcctacn cttggatctc ta 480

<210> 19479

<211> 436

<212> DNA

<213> Glycine max

<220> unsure at all n locations

<400> 19479

tgtagcaaat tcaaacccca ttaaatctta actagatgt acgattaagt ccgcaatat 60
aacgagaagg ttgatattga aaacaaaagg tctagcaaaa tcttaacgac aaanatttt 120

gaaactaaca tgggaagctc tccagacatt caaatggta taaatcttca cacggat 357

<210> 19482

<211> 453

ttaa tggac atcgtatga aaatataga aacatctgtt atttcaatt atccttatt 60
gttaatttc gagtgcact atatgtgatg cgcctaaatt ggacattcga gttaaatgtt 120
atgacatttc gaattactca agtgccttcg ttgttcaatt ctgagcgtgt cgttatgtga 180
ttctctgaa tggacatcc gtgtgaaaat ttatgacct ttgaattct caagagcttt 240
tgatgttcaa ttctgagct ctgacatat tatgcgcctg aataagacat ccgtgtgaaa 300
agttatgacc attttaatt ctgagagct ttcatgttt aatttcgagc gtatcaatat 360
attataagga tgaatcggac ctgggtgtga aaagctatga ccatctaat ttcatgagag 420
cttcatgtt tcatcttcga cgtctctat atg 453

<210> 19483

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19483

actaagctaa caggccctta taggctgaaa caagcaccaa ggtagtgggt tgaccgacta 60
anaattactt tgattcagtt tgggtttcaa gctagcaagt gtgatccatc ctgtttcata 120
tataagcgtc aagctcacac tatttttctt ctagtatatg tggatgatat tatcttcacc 180
gacagctcat ctctctcat ccaacagatt acaactcaac ttcattttgc attctctctt 240
anacagctag gtcaatryga ctatttcttg ggtattgaga tcaagtatct acttgatagg 300
tctctctca tgaactanag caagtacatt agagacctcc ttcacaggac tccatggct 360
gaagttcatt ctattctctc tctatgacc tcttcttga aactgtctat aactgggggt 420
gaattatttc angatctac tctctacaga tct 453

<210> 19484

<211> 257
 <212> DNA
 <213> Glycine max

<400> 19484

caacacatct caacttatct attggtctct arggetatca caaagctccc gctgacatt 240
 gcttttcttt aagcttc 257

<210> 19485
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19485

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 aacttattgt caattcaatt ttctccgagc ttgggatcaa aattttgagc gtattgatat 120
 attacgggac tcattcagac atccgagtaa aaaattattg tcgttagaat ttgatacgag 180
 cttccgtttt caatttgag catctctcgc taaattgcga cagtctgtcg ggcacccaag 240
 aaaaaattta ttgtcgtttc atatttctaa gagtttccgt ttccaatttg gagtgtctcg 300
 atatattacg ggactcaacc ggacatccgt gtataaagtt attgtcattt caatttgctc 360
 agagcttcta gctcaatat tgagcgtctc aatatattac ccgattcaat cggacatgcg 420
 agtaaaaagt tattgt 486

<210> 19486
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 19486

tcacgcttat actaatttat cctaccatgc tcagactgac cggcggactg aacggaccat 60
 tcacccgctg aacgaccttt tgaaggcatg tgtcttaaaa cacaagggca gtcggacag 120
 tcttttgagc ttgatagagt ccacttaaaa cagtagctct cctctaccca ttgacatgcg 180

tccctatgaa gctctgcatg gtacaacgtg ttgcacaccc ctatgtctgc tatagcccg 240
 agaagacact caaccacgcc ctgcactggt gcatcaccac ac 282

19488 19488

19488 19488

19488 19488

agtgcacaat atcatctcta atattctat gaagagttt tatttataaa tcttgctta 60
 gaaacattca cttttttgccc cgaactagca cagaatatgc ctagtattta cttaatagca 120
 tcaattctgt ctaagtttgt tctgcacaa catagaaaat catttgcaaa ggcaaggtaa 180
 gtaatttttg gaccaccttt agatgattca ataggcttcc aaattttctg ctccactaca 240
 ttattaatca attgaaataa tctctcaatg caaagaacaa atagatatac agagatagga 300
 tctctatca cactctcta acatgaatga atttttcaag agcttctcca tccacatca 360
 cctg 364

<210> 19488
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19488

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 gcaatcaatc taaagcaaaa gaaaaaaaat gcaatcaatc gtttccaaaa ttcttaatag 120
 aaattttaat caattgtcaa gctatttaag caactatcta ttattaaaca catatattaa 180
 atattataac atatatantt ttgcatatct aaacggtggg ttatcttggt taattttcaa 240
 acctgatata agtgtaaaaa atttctaatt attaatgcaa agtctattct tttctcata 300
 tctataatto tagttcttaa tattctgttt atctaaatct ttaatttcaa aatattttat 360
 ctaaagggtc cttaaatggt gaaattgaac gaatagaaaa taaaaacttt aactgtaaat 420
 aatctattca caaatgattt tcttatata 449

<210> 19488

<211> 340
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19499

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 gagggtgagatg gagggtgagatg gagggtgagatg gagggtgagatg gagggtgagatg 240
 gagggtgagatg gagggtgagatg gagggtgagatg gagggtgagatg gagggtgagatg 300
 gagggtgagatg gagggtgagatg gagggtgagatg gagggtgagatg gagggtgagatg 340

<210> 19490
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19490

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 gagggtgagatg gagggtgagatg gagggtgagatg gagggtgagatg gagggtgagatg 120
 gagggtgagatg gagggtgagatg gagggtgagatg gagggtgagatg gagggtgagatg 180
 gagggtgagatg gagggtgagatg gagggtgagatg gagggtgagatg gagggtgagatg 240
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 gagggtgagatg gagggtgagatg gagggtgagatg gagggtgagatg gagggtgagatg 360
 gagggtgagatg gagggtgagatg gagggtgagatg gagggtgagatg gagggtgagatg 420
 gagggtgagatg gagggtgagatg gagggtgagatg gagggtgagatg gagggtgagatg 454

<210> 19491
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19491

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aaattttattg ctgttttgaac tttctaggag tttctgtttt caattttctag tgtctcgata 120
 tattatggga ctcaatcgga gatcctagtt aaaagttatt gtgatttggc tatgaaaaga 180
 gctttcgttt tcaatttcga gctctcgat atatgacgg actcaatcgg acatcctat 240
 gcttttctgt tcaatttcga gctctcgat atatgacgg actcaatcgg acatcctat 300
 gcttttctgt tcaatttcga gctctcgat atatgacgg actcaatcgg acatcctat 360
 gcttttctgt tcaatttcga gctctcgat atatgacgg actcaatcgg acatcctat 420
 actaaaatgt tttgtcgtt cgaatctgat ac 482

<L10> 19492
 <L11> 431
 <L12> DNA
 <L13> Glycine max

<L00> 19492

tgggaattca agtccaatcg tctcgatata ttacgggact gaatcagga tccgagtaaa 60
 aagttattgt ggccttgaat tgcagagagc ttcggtattc catttcgagc gtctcaatat 120
 attacgggac tcaatcagac atccgagtaa tacgttattg tgcgttgaat ttgtctcatag 180
 ctctgataat caatttcgag cgtctcgata tattacggga ctcatgcaaa caaccgagtg 240
 aatagttatt gtcgttgaat ttgtctcaga gcttcaacat tcaatttcga gcctctcgat 300
 atattacatg actcaatcag acatccaagt aaacagttgt tgcgttgaat aattgtctcag 360
 agtttcaaca tcaatttcg agcgtctcga tatattacgg gagtcaatcg aacatacagag 420
 tcaaaactta t 481

<L10> 19493
 <L11> 409
 <L12> DNA
 <L13> Glycine max

<L21> unsure at all n locations
 <L00> 19493

agcttctgac ttttctaang tctaacgaaa gggaaaacagg accaaccaaa ggcctctaaga 60
 acgttataat ctggattctt gttgacaaag acagtagtat agggaaatatt acaatgcaca 120
 gaagcagtag gcaatctatc tatcaagtat gctgctgtac taaaggnaaa atccccaaac 180

ttgagaggca gtgaagcttg tttaagaaga gcgagtccta attccacaat atgttttgtgt 240
 ttcttttcca ctacaccatt ttggtgatga gtgtgtggac agatcaatct aagagt-gata 300
 ccttgggttg ctaaaaaatt agtgagaggt ctgaactctt ctctcaatc tgtgtgaaca 360

 <210> 19493
 <211> 311
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19494

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 ttgtaatcct ttgccacaga tcagcacact cttttccaat gggaccagtg atagcagaac 120
 ctacattgaa acatgttcaca aacaaaatta ctaccagcaa atgcataat agaaggtcaa 180
 acggcaaaaga tgaagagaat aacaagtaca ttgagaacatc tcatttgtat ttctttcttt 240
 ttgaaagcca aaaataatca gtggctactc actacataaa catgcacttt gttaccatgc 300
 anataaaatc ataaacgata cct 323

<210> 19495
 <211> 311
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19495

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 taadaageta ttgtcgtttg aatctgctta gagcttctgt tctcaatttc gagcttctcg 120
 atatattacg agactcaatc ggacatccga gtaaaaagtt atcgtcgtta gaaattcttc 180
 aaagcttttcg ctatcaatta ccagttactc gatataattat gggattcatt cggacatccg 240
 agtaaaaaatt tattgtcgtt tgattctgct cagagattnc gctatcaatt acgaggatct 300
 caatatatca c 311

<210> 19496
 <211> 404
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19496

ttgaagaaat ttaagagaa ttaatttat acttgaatgt atgattcagt cccataatat 60

ttctaaataa attcaaaata caatgaattt taatagaaat attcaattta atgaaataat 120

atatagagac gctcgaaatg gaattctgaa gctctgagca aattcaaaag acaataaatt 180

ttaattcaga tgtctgattg agtcttgcaa tatatcgaga cgtctgaaat tgaataccga 240

agctctgata aaattcaaac gacaantaac ctttactcgg atgt 300

<210> 19497

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19497

ctataaaaact aagcttaacc tagaggacca gactatccag tgttggtttt atcagacaa 60

tgtctacaag attgacttgc ctagtgaata taatgtaagt gccattttca atgtgtctga 120

tctatctctt tttgatgcag atggaggggc cttgggtttg aggacaaatc cttttcaaga 180

aggagggagt gatgatgaca taaccaaggg caaggaccat gaagcacttg aagggcctat 240

gaccagagggc agacttaaac aagcccaaca catcatagag acaagggttg tcatttgtat 300

agctgccatt gatgatgatt gaaggcccaa gtggagaaag atgaatgcc agaggcagag 360

gcactacca gactacta 378

<210> 19498

<211> 402

<212> DNA

<213> Glycine max

<400> 19498

agcttggttt catataatct taatgaatg gccattttca cagtaagggt tcttgagttt 60

tgcactcgtt atgctctaga caattcaaac tattcaacta aattctaga atcacactag 120

gagtcaaaact ttccaagttt atccttgggtg tttaggatga aacgctgaca tccaaatgag 180
 tggaagtaag agatattggg cttacgtctc ttccataatt catagggact tctttaagat 240
 aggcattatg taaattttgt tctataaata ccaggaaaaca tttacagctt caaccataa 300

<210> 14199
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19499

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 ggagtcagat atggtctggt catagtgyat gattacacta gatggacatg ggttaggttc 180
 ctaaccacaa aggatgagtc ttttgatacc ttctataaat tttgtaaaaa gatttacaat 240
 gaaaaaggta tttgtatctc ttcaatcaga agtgaccatg agggagagtt taaaaatgat 300
 atttttgaaa aaatttgtca agagaatggt attcaccaca attttccact ccaagaacac 360
 cacaacagaa tggagttttt gagagcaaaa atagatctct ttaagaaatn gotangacca 420
 tgcctaatga cccacccaac cctaaatact 450

<210> 19500
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 19500

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 ctactcttgg ggagaccatg gcaatttaat aagagggcta atcatgatg tttcaccac 180
 aatctctctc tcaaggatca acgcacaaaag atgtgctcta accattgagt ccacaadaag 240
 tgtgtgagaa tcaaaagacaa atgagagaga taattcttca agaccagaga gacatagaaa 300
 acagagccaa acattgaga gtccaaaaag tgacgacaaa cagagggaaa cacacgagag 360

(a) (b) (c)

DNA

<213> Glycine max

<400> 19503

agcttgcaca tctttctcga caggttgaca attcaaatct aattgtccct tggcagcttc 60
tctttctcga caggttgaca attcaaatct aattgtccct tggcagcttc 120
tctttctcga caggttgaca attcaaatct aattgtccct tggcagcttc 180
tctttctcga caggttgaca attcaaatct aattgtccct tggcagcttc 240
tctttctcga caggttgaca attcaaatct aattgtccct tggcagcttc 300
tctttctcga caggttgaca attcaaatct aattgtccct tggcagcttc 360
aggttatatg cgaggatg 378

<210> 19504

<211> 279

<212> DNA

<213> Glycine max

<400> 19504

agcttctgtc tttactttga accggctcctg gtctatccac ttgtggaacc aaagaaaatg 60
aaaacaaagc acttcttcta tccatactta gagaacttgc gttcttgttc cactgggaaa 120
aaaccagtc c aatgaatatg gtcaagtgtt ctacgcaaac catatgtatt gacagcttca 180
ttagcagctc taaagccacc accaatagct ggggaagaat cattggccat ctgattcttg 240
acaaattcac ccaatttatt ttccacatga gattctgcc 279

<210> 19505

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19505

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tgaaaaaggtt ttttcaaaaa ctgagtacca catggatttt tctcaaaaaca tatttaccaa 120
agacttttta ctctctggta atcaattacc agattattgt aatcgattac cagtagcaaa 180
atggatttga aaaagttttt aaatgaattt acaacgttcc aattgatttc aaaaaagctg 240
taatcgatta caatgttttg gtaatcgatt accagttcct ttgaacgttg aaattcaaat 300

tcaaatgcga agagtcacat cctttcacat aaaagatntg tgtaattgat tacattgatt 360
 tggaaatcgat taccagtgat tggttctgaa taaactaaaa gatgtaact 409

<100> 19507
 19507
 19507

<100> 19507
 19507

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 aatctctoga gagcattcct tattcaattt cgagcgtgtc gataaatcat gcgcctgaat 120
 cggacattcg tgtgacaagt tatgaactatt tgaatttctc gagagctgcc ggttttcaat 180
 tttagagcgc tggatattgt atgcgcacga atcggacatc cgtgtgacaa gttatgacca 240
 ttatgaatttc tggagagctt tggatgttca atgtcgagcg tctggatata ttatgcgcct 300
 gaatcggacc tccgtgtgac aagctctgac catttgaatc tctcgagagc attcgttgtt 360
 caatatcaag cgtctcgaga ttatatgcgc cttgac 397

<210> 19507
 <211> 309
 <212> DNA
 <213> Glycine max

<400> 19507

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 ttgtgacact ttttacttgt gaagtcgagg ttataactac aacttctgc acatgtcatg 180
 ccatttggct aagaagattg ttggaggaac ttcagttgct gcagaatgaa agcaccaaga 240
 tctatgttga tagttgatct gcgcaagagc tcyccaagaa tccggtgttc catgaacgaa 300
 gctagcata 309

<210> 19508
 <211> 320
 <212> DNA
 <213> Glycine max

<400> 19508

agcttatctc tgggggcaga atcactctca ttaactcagt cctatcagct ctacctatct 60

atttactatc cttctttaag atccctaaaa aagtgggtgca caaaattggt tccatccaca 120

gagctgctgc cttctcttgc cttctcttgc cttctcttgc cttctcttgc cttctcttgc

gagctgctgc cttctcttgc cttctcttgc cttctcttgc cttctcttgc cttctcttgc

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gagctgctgc cttctcttgc cttctcttgc cttctcttgc cttctcttgc cttctcttgc 180

<410> 19509

<411> 390

<412> DNA

<413> Glycine max

<400> 19509

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tgcttctgtg atggtctctt cccgttccaa gcttcaattg gagtcttctg tttacagac 120

ttagttggac atctgttgag tatgtaaaca gcagtgtaga ctgcttccagc ccagaatttg 180

ttaggtagtc ccttctctct gagcatcgat ctagctatct ccataactgt gogattctct 240

ctctctggaca ctctatcttg ttgaggagaa tatgagactg taagttgtcg ctcaatgcct 300

tcctctctac aaaatctctt aaactcgcga gaggtgtact ttttgcgcgc atcacttctt 360

agtactttta tccgttttcc actttgattt 390

<410> 19510

<411> 390

<412> DNA

<413> Glycine max

<223> unsure at all n locations

<400> 19510

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ctaagctcac ctctcttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120

aagctcaccc ccctgacaaa aaaacatgaa aataacaaaa aaagtcttta ttacaaagac 180

aactcaaaat gccccgaaat acaaductaa aacctatcac tachtagaatg gcaaaaaaac 240

aaggcttaga caaaggaaaa accatctcta atatttadca adataagcgg cctcactctt 300

agcccatgtg ctcgatatct accctaacgc tcatgagaac notanggeet ttccttggat 360
ctctagccca atctacttgg agtcttctag 390

<210> 19512

<211> 335
<212> DNA

<213> Glycine max
<400> 19512

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atctatctta ctttttaactt aagttatgaa ttcctttaat gacaatcttc ttaaataatta 180
attcaaatga agcaacttga atatgaatat aaagcaataa taaataaagg agattaacgg 240
aagagaaaat gcacactcag ttttatactg gctcggtcac acccttctgc ctacgttcag 300
tccccagca acccgttga gagttncact aacttctcaa ttccttttac aagttctaaa 360
caca 364

<210> 19512
<211> 335
<212> DNA
<213> Glycine max

<400> 19512

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caatggcggg aatgacggac cgaggcagaa cggggttgag ggagttaaag tcaatgttcc 120
tcctttcaaa ggtagaagtg atccagatgc ctacctggac tgggaaatga agactgagca 180
cgtatttgcc tgcaatgact acactgatgc gcagaaagtc aagctagcag cagctgaatt 240
ctccgactat gcccttgttt ggtggcataa ataccaaaaga gaaatgttga gagaggaaag 300
ggagagaggt tataratgga ctgagatgaa aagggctgat agaacaaggt atgtgccac 360
tagctataac agaaccatgc gacag 385

<210> 19513
<211> 381
<212> DNA

<213> Glycine max

<400> 19513

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taaatattga ggaagatgag gaggtaacta tgggttcgat tctttaatgg tggactaatg 180

atatctgtga tattgttgag ctgcacgagt ttgttgaaat ggatgatttg cttcacatag 240

taatacaagt ggagcaacaa t 300

<210> 19514

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19514

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aaagtatttg tegtgtgatt tttctcagag cttcagtttt caatttcgag cgtctcgata 120

tactacggga cacaatcgga catccgagtc aaacgttatt gtctgttgaa tttgcttaga 180

gtttttgttt tcaattacga gcgtctcgat atattatggg gctcaatcgg acattcgagt 240

aaaaagctat tgtcttttga tttttctcag agcttcaatt ttcaatttcg agcgtctcga 300

tatactatgg gacacaatcg gacattcgag tcacaagtta ttggcgtttg aatttgctca 360

cagcttctgt tntcaattac gagcgtctca catattacgg gaotcaatcg gacatccgag 420

ctaaagttat 480

<210> 19515

<211> 388

<212> DNA

<213> Glycine max

<400> 19515

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tggtagaat catattgttg gaggacgttt gaaagttgat cattacaaaa gtgtgtacct 180
 brattactaa tbaatagtct aggcactcca aactatagaaa agatgtttct ctttaagaac 240
 taatcattc tttttccatc atccatigaa ctacgaattc ctcttaccga ctcttgacaa 300

<210> 19516
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 19516
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 gacagcttcc caggttctgc tatccagtga ttgacgaca gccaccatcc ttgtgtccca 180
 gtatccatag ttggttccat ctacgattgg tggctctgtg actgtgcctc cttctatctc 240
 catgtgcac cagaatttatt tccctatata tcaactctgt atctcgaatg ttggctcttg 300
 atccaatcga gattctgac c 321

<210> 19517
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 19517
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 aatccctcc gccggcgccc gctatgcct cttcgactcc cttgtctcgc ctgcgcgggt 180
 gccgtttccg aagtgcgca tctccgaatc gaaaaaggac caacgctgcy aggacgagtc 240
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 gaatggctcc gaaacgtcgt cgtttagaga ggaagagccc gaatacgttc ccgaaagggc 360
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agctttgaat gctctattca atggagttga caagaatata ttcagaactga tcaacacatg 60
 cacagtggcc aatgatgcac gggagatcct gaaaaccact catgaaggaa cctccaaagt 120
 caaatgccc aaattcacaac taattggccac aaaattcgaa aaattgaaga tgaandacaa 180
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<210> 19521
 <211> 428
 <212> DNA
 <213> Glycine max

<235> unsure at all n locations
 <400> 19521

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 tateatcatt tttttctccg tcattgaggt gccacttgag ctgccaggtc tctccacctt 120
 taggggtatt cttttgaaag attcgtgccc cttttttgca catgtttctgt agttgcatcc 180
 tateogaaga cattatactg acaactgccta acgaaggcaa ccattangtc ctcccangaa 240
 tggactcggg aaggttccaa gttagtgtac caggtaacaa ctaccccagt aagactttct 300
 tggaaaggaat gtactaacaa ttcctcatct ttgcggtatg ccncatctt ccgacaatac 360
 gtcttttagat ggttcttggg gcaagtaac ccttgtact tgtcaaagtc cagtaccttg 420
 aacttgag 428

<210> 19522
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 19522

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 tgrataaatg tggthacaat ctacatggt atatcatgct gcttatgaaa ttaagttaat 120
 taacaaaaact ccttgcctct aaatttgata tgtatggggt gacacccctt acccggacat 180

atatatataat aaataaaaata tgtaaataata ttggtaaaca aatccacgtg ggtaaaagat 240
 tcaatattcac ttcaactatta tcaaatataa ttgtataaaa tgttgtttca atctacatgt 300
 gtatatcatg ttgtttatgc aatttacttt attacaaaaa ttttttgctt ttaattttga 360

<209> 19523
 <210> 390
 <211> DNA
 <212> Glycine max

<223> unsure at all n locations
 <400> 19523

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 ggtaactata attaatccat aatttaccat acattaaatt ttttttatat agaatttaat 180
 gatgatcat aacttttaag taccagtac tagtttggtt tctctttaat ataactacca 240
 aaagatatgg atcttanatt tgattctgta gaaagttaac taatggtgta tgtgaatata 300
 aaattgaatc gtgcagctga ttgatggta ttaattattg gtgtgttctt gatatattta 360
 aggaaattgt gaatc 375

<210> 19524
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 19524

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 gtgctgatac cattaactag tcaacaggtt cttgagcggg ttgagggcat caatactata 120
 tttggaaaga cccaaaagaa gaaaaaaaaa agtaaaaatt ccatatggaa gatgaggetg 180
 atattgtttg atcttccata ctggttcgat ctgatgtca tacattgtat tgatgttatg 240
 catgttgaga aaagtgtgtg tgatagtgtc atcgacaatc ttcttaacat tcaaggcaag 300
 acaaaggatg gtttgaatac ttgccaagat ctagtgtgaga tgggtatadg agaccagtha 360
 catccaaggt ttgaggttaa gaaaatatac 390

400 14825

tacaaagaaa	ggagctacca	gaaacaactcg	gcttcttgaa	attgcgcata	ctgatattcg	240
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ctattcacgt	aacggttatg	cctaattact	gcattgagaac	tctcaagcag	cggatgcctt	360
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<223>      unsure at all n locations
<400>      19526
```

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taatcatcac	catattatac	taatgatttt	ttttattgat	cagaactcgg	aaaactggaa	180
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tgtcttgata	actcttgagg	tagagcaact	tttccaagga	tatatatcta	tagtctataa	300
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tgtcttttcc	gttggcacat	ctata				365

400 13521

adctcaaca baadaccact bccadddtgc tdaaac'ac' bccatguat ttaatgddgc 63

ctatgcaagt tgaaagcctt ggaggaaaga gytatgcta tgttgttgat gatgattcct 120
ccagatttac ctgagtaaac tctatcagag agaaatcaga aacctttgaa gtattcaaaag 180
agttgagtct aggaattcaa agagagaaaag actgtgtcat ccagagaatc atgagtgacc 240

<215> 19528
<216> 404
<218> DNA
<219> Glycine max

<223> unsure at all n locations
<400> 19528

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attacggggac tcaatcagac atccgagtaa aaagttattg ccgtttgaat tggctccgag 180
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<210> 19529
<211> 440
<212> DNA
<213> Glycine max

<400> 19529

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ccttggagat tctaagacca ggaatacccc tctgggatct catttgaagt tttcaaagaa 420
ggaatctttg cagacaaatg 440

agcttatcaa aattgaaaat gatgggttct aatctcaaga atcttagagt cttagattgt 60
gagtcttgc aactaggaaa acatgttagg tcatcatttc ctcaaaactgt acaaagatgt 120
aactctgctt cctctaccat tcaactctgat atttggggac caagtagggt tacatctttt 180
gattttcggg attttgtaac ctccattgat gaatttttca gatgtaactg ggtttattta 240
atgaaagaca gatctgaact ttgcctata tccatgttgt tctttaatga gattgagaat 300
caatttggca aatcaattaa gattttcaaa agtgataatg cttaaagagta tctctctcat 360
gactctcttt cctttttatc ttcaaa 386

<210> 19531
<211> 411
<212> DNA
<213> Glycine max

<400> 19531
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gagctttcaa cagcttcttg cggattacca cgaaggcctc atctctgatt ttcaaaacct 180
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tgcctgaaagt catctcgtat ggggacaaac tagagccgga gtggaccgag gtgttataga 300
accactccac ccaattttaa aacttccccc atgaagaagg cttcttatga acaaaggctc 360
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<210> 19532
<211> 329
<212> DNA
<213> Glycine max

<400> 19532

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tctaaadcca tctacccaac ttctatctca ccttcacccc gcttttcttc tctaaatcc 180
tctaaadcca tctacccaac ttctatctca ccttcacccc gcttttcttc tctaaatcc 240
tctaaadcca tctacccaac ttctatctca ccttcacccc gcttttcttc tctaaatcc 300
gaggtgatgt aagaccactc cacccaacc 329

<210> 19533

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19533

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aatctatata gaggcaatag atttaaatat ttgggaagcc atagaacaag gaccttatgt 180
tccctctata gtggccggaa gtgcaacaat agaaaaacct agagcatatt ggactgagga 240
agaaagaaga ttantacaat ataatttaaa ggccaaaaat attattacat ctgctctatg 300
aatagatgaa tactttacgg tctcaaattg taacagtgtc aacgatatgt gggataccct 360
acaagtaaca cat 373

<210> 19534

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19534

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atgagggccc tatgcacagt tgc aaagcac ttggatggaa aagaggtact gccctatcgt 120
tggttgtgga ttgaatttct ccagaattta cgttgggtca atctttatcc agagaggaaa 180
tcagacacct ctgaaghat tcaaagagtt gagtctaaga ctccaagag aaaaagactg 240

tgtcatcaag agaattatga gtgaccatgg cagagagttt gaaaacagca agtttaactga 300
 attctgcaca tctgaaggca tcaactcatga gttctctgca gccatcacac cacancataa 360
 tgcataatg caacacacaa catcaattt 324

19535
 Glycine max

<223> unsure at all n locations
 <400> 19535

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 atcgagagcg tggaaattga acaacgcaag ctctcgtgaa attcaaatgg tcataacttt 120
 caactcatag gtccgattca ggccataat atatcgagat gcaacgaaatt gaacaacgga 180
 agctctcgag aaattcaaat gatcataact ttctcgaagg aggtcagatt tatgcgcata 240
 atatctcgag acgcttgaaa ttgaacaacg gaagctctca aaaaattcaa atggctcctaa 300
 cttttcactc ggaggtccca ttcaggcgca taatatatcc agacgctga aattgaacaa 360
 cgggaagcttt 370

<210> 19536
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19536

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 taaattttta aggcattcat tgcctaagaa atctcgggca gtaagttagc ataactgtaa 180
 cttgaataat cataaaaaat gatgataaag taccattcct ttccgaaaga actaacatca 240
 aaaggtccac aaatatcagt atgcacaatt tcaagaagct gaggcttct tgtagctcct 300
 ttctttgtat gttctgggtg ttatccttta atacaaccca caaaaatatt tagatccgta 360
 caactagat aacgaaqaar tcatctttta taattttt 398

<210> 19537
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 19537

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 attttaattt ctgcgagagct cccgttgcta attttaagcg cgcctatatat tatgctgccc 300
 caatctgacc ctacagttta agctatgaat attcgaattt cccg 344

<210> 19538
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 19538

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 tcaacaacgg aagctctcga taaattcaaa tgttcataac tgttaactcg gatgtcagat 120
 ccaggcgtat aatatataga gaccttaaa attgaacaac gaaagccctc gtgaaattga 180
 aatggtcata aattttaact cagatgtcat attcatgcgc atgatatac gagacgctgg 240
 aaattgaaca acggaagctc ttgataaatt caaatggta tatgttttaa ctacagaggtt 300
 cgttcatac gcattataca ttgagatgct cgatattgaa caacggaagc ttttgagaaa 360
 tccatgggtc ataactttta actcagatgt cat 393

<210> 19539
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 19539

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 aaatcgttac ctgtgcgaac ggtttggtt ttgtgctcct ctgtcgacca tcatcacagac 120
 ctctgcccct ccatgcagca accgcagca attgagcagc ctgaagctta tctgcgaat 180

atttacaata gacctcctca acctcagcag caaaatcaac cacagcagaa caattatgac 240
 ctctccagca acagatadca ccttggatgg aggaatcacc ctaattctca atggctccagc 300
 cctcaacgac aacacacaca ccttgcctct tcttcaaaa tcttgcctggc ccaacacac 360
 ctctctctct

<210> 1942
 <212> DNA
 <213> Glycine max
 <400> 19540

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 aaagtaatag ctccactag agctttttct tccaactcta tcaccaacat agtcaacatc 180
 ataatagett gcaagtctga aactctctct atttttgaac ataacaccaa gattagaagt 240
 tccaattaaa tatctacaaa tatgtttaat ttcacttagg tgaacttccc ttgggtatct 300
 ttgaaatctt gcacatagat aaacattgaa cataatatca caaatggatg cagtgcagata 360
 gaccactgag ttgcctccac ttttttggat cc 392

<210> 19541
 <211> 422
 <212> DNA
 <213> Glycine max
 <400> 19541

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 tgcctgaatgc cacaggettt gcaaaaacttt ttgctgctt tagtctatcc tgcaaatact 180
 agtttttgatt ctctgctgga gtcactacta gcctgtgcta agccttctcc acagtctggt 240
 ggcattgcta aaaaagcttt gcattcaata gctcagtgty ttgctgttct atgccttget 300
 gctggtgatc agaagtgttc atctactgtg aaaatgctta ctgacattct caaggatgac 360
 agcagatcta actcagtaag tttttttctc cagtaactct gacgtgtaat gatattaatt 420
 ga 422

ttttcccttg tagtttccat agcagcagac acatcatcca tttcacaatc ccaatccctc 120
 agttctggaa gaaccatagt ttctccaaat ggagtccttg aacttggatt ctccaatctt 180
 caaatccaa caaaaagtta cctcgggatt tgggtcaaga atattccgtc tcaaaaatct 240
 ggttcttggtt ttttcttggtt ttttcttggtt ttttcttggtt ttttcttggtt 300
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 ttttcttggtt ttttcttggtt ttttcttggtt ttttcttggtt ttttcttggtt 420
 g 481

<310> 19545
 <311> 407
 <312> DNA
 <313> Glycine max
 <323> unsure at all n locations
 <400> 19545

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 agaagaatat ggcatttacc tggggtgaaa aacaagagca agcctttgct tttctcaaag 120
 aaaagcttac taaggcacct attctagctc ttctgaatt ttctaaaact tttgagctag 180
 aatgtgatgc ctctggtgtg ggagttggag ctgtattgtt acaaggtggg caccctattg 240
 ctatttttag tgaaaaaact catagtcca cctcaacta cccacctat gataaagagc 300
 tctatgcctt aataagagcc ctccaaactt gggaacatta ccttgtttcc aaggaatntg 360
 tcatcatag tgatcatcaa tcaattaaat acattagagg gaaaatc 407

<310> 19546
 <311> 349
 <312> DNA
 <313> Glycine max
 <400> 19546

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 atatatcgag atgtcaaaaa tttagatccg aagctctgag aaaattgaat tgacaataac 120
 tttatacag gatgtccgtt tgagtcctgt aatatataga gagctgttaa attgaaagcg 180
 gaagctcgta ggaaattcaa acgacaataa ctttttaact cgtatgttga ttgaatcccg 240

taatatatcc agacgtccaa aattgagact acaagctctg agcaaatgac aatgacaata 300
 aactatataa ccgatgcccg gttgagtcac gtaatatata gagaccctc 349

<210> 19547

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 aattatcgag acgtctgaaa ttgaacaacg gaagctctcg agaaattcaa atggccataa 120
 cttttcaact gcatgtccga ttcaggcgca taacttatcg agacgttcga aatttaacaa 180
 cagaagctct ccagaaaatto aaatggtcac aactttcac tgcacatctt aattcagcgc 240
 atagcatata gagacgttag aaatttaaca acggaagctc ccagaaaatt caaatggcca 300
 taaattttca ctcgcatgtg ccattccaggc gcatacgcta ccagacgtt agaaattcaa 360
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<210> 19548
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19548

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 ctctgtctcc tagaaaactt gaacagcgtg gtacacccat gaactagttt ctccgaatag 180
 gccttggtgt ccttgaaaac aatggaagca gatgcacaagg cagcagccat ctccagctga 240
 agatcagaac aactatggca ttcagtcaca gggcgggtcat agtccatgtc ctctgggcgc 300
 atccagcaat agtggtcatt cggactgtca ccacccgaag tatctccaag cccaaactgt 360
 caaacaagca taaaaaacca tcattgagac acatctact ccgcaccaca caacanaatt 420
 ctagtccacc aacc 434

<210> 19549
 <211> 398

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19549

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31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120

121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160

161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

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<210> 19550

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19550

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81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120

121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160

161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240

241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280

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<210> 19551

<211> 435

<212> DNA

<213> Glycine max

<400> 19551

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

ccattgggttg gtccatacaa acattcttct ctaaattctt attcagaaag ggggttttca 120

catttatctg atgtagctcc aagtcataac gggctactaa tgccatgata atcctgaaag 180

aattccttgc atgacacaaa aatgtctctc taaaagaaat gtcatacttc tgagtaaaat 240

gagcattatg gtccatacaa tctatctctc atctctcttc attcagaaag tctcctcttc 300

tctcacaact tacac 435

<110> 19552

<111> 318

<112> DNA

<113> Glycine max

<401> 19552

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gggcattcatt gcttaaaggt atcacttcat catttactac tcttatccct aaatttgagc 120

aatcgtaaag cttgtcggag tatcacccta ttttactcat aggtgggtct cataggatca 180

tttcgaagac tctggcccat acaatgaacg cagtattacc tactattata tctccgcaac 240

aaatagcctt tttacccgga aggaaaatcc atgatgggtgc ggctgtttatc aacgagtttg 300

tggattcgcg aaaaacga 318

<210> 19553

<211> 397

<212> DNA

<213> Glycine max

<400> 19553

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tccattatcc agtaatatca tgcctctctt atttggacat tgagaagcaa tatgaccaac 180

tccttgatac ctgaaacatt tgaatcatg gcatctagaa gatgaattaa ttcccatctt 240

acatttaggt gtagcaaatg aatttttggc attagcttca tcttttgact ttgtcataga 300

ttttttgttt tgcgaatttg accctcatga ataagtggaa tcaaatcttg aagtaactct 360

agctctcaat tgcctctcca cttgaataga tttatgc

397

<210> 19554

<211> 443

<212> DNA

<213> Glycine max

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cagttagaagt tgcacacgaa gtctctgacc cgtgttagggc gaaaggcagc atctcgtgcc 180

aatcttttga tgacacgctc atctcttgaa caatcttctt gatattctta ttgcagacct 240

ctacagcccc attcatcttt gaccgataag gggtagagtt atgatgctgg atcttgaagt 300

cttcgcacat ctctgcatt atcttatgtt tcagattggt gccattgtca gtaatgatct 360

tcctgnggag tccgtatcga caaatcagct ccttctttat gaatctaaat accacattct 420

ttgtgacatt agtataagaa gcg 443

<210> 19555

<211> 376

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19555

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aatgacaatc catctctata tgettagtcc ttctatgaaa gactgggttc gaggcaatat 120

gaagagcacc tcgattatta caatacaact tcatttgcaa ctcttcacaa aacctcaatt 180

cttgacacaaa ttgtctaatc cacatgagtt cacaaagtaac tataccacc accgatatt 240

cagctctctgc actaaaccga cctacaaccg tctgtttctt gcttctccaa gaaataagat 300

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<210> 19556

<211> 443

[illegible]

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gtcccatcca	cgcgtatcac	atatacagac	gctcgaaatt	g		341

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<210> 19559
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 19559
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 acaacctcct ctccaccttt aggaatgcc attgtgccat attgttctata gaaagtagat 360
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<210> 19560
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 19560
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 gaaataagat taattaagga aagcaaaagt aataaaggaa agaagactta ttaaggaaag 180
 tagaataatt aaggaaacca taatttaatta aggaaagtaa aggcagactt gggttaaaaa 240
 gtttactaat ctgcactat aaaaagaaaa gagaaaaggaa ggagaagaca catagaaatt 300
 ccaagagaat ahaattcttc ataaacagaa aaggctagaa gaaugagaag caaacaatag 360

gagtcattcc ttccctctat ctcttttctt atctttt

397

<210> 19561

<211> 413

<212> DNA

<213> Glycine max

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tttctctagac aaaactogaat tgatgggtatt aaactcaaca tttctctcatt taaaggaaag 180

aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgtttt ttcattgcaac 240

aaactatgagg aggcctagaa ggtgaagctt gctgccaagg agttttccga ctatgctctt 300

ctgtgtgtgga acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgataca 360

tggacggaga tgaaaaagat catgaggaag cggatatgtc cggctagtta ctcaagggac 420

ttgaaattca agc 433

<210> 19562

<211> 412

<212> DNA

<213> Glycine max

<400> 19562

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agatgtccca atctttgatg ccatattctg acttcattct ctttggagga tagacatgtg 180

gaggagtaac tgccttcttg acgtgtccat acgtagcagt tgtcttttga tctgctgccc 240

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<210> 19563

<211> 397

<212> DNA

<213> Glycine max

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 gtgaatgctg aggtctgttt cgcgggccgt cgtcatctaa taacgggggt caaataatgc 300

<210> 1486
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19566

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 gatataattac gggccttaat cagacatccg aatacaaaga tattgtcgtt tgaattggt 180
 cagaacttca acattcaatt ttgagcgtct cgatatatga taggactcaa tcagacatcc 240
 gagtaaaaaag ttattgtcgc ttgaattgtc ttagagcttc aacattcaat ttcgagcgtc 300
 tcgatataatt acgggcttca atcagacatc cgagtaaaaa gttattgtcg tttgaattgg 360
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 ccatgtaa 488

<210> 19567
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19567

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 aagtacaate ctgggtggag gaatcctcc aaccttagat ggtcgaatcc ttacaacag 120
 cggcaacaac aacaacaaca acaacaact tattttcaga atgctgctgg cccaagcaga 180
 ccatatgttc ctccaccaat ccagcaacaa caataacagc aaacagatga ggccctccg 240
 taaccttccc ttgaataact tccgaaccaa atgactatcc aaaacatgca gttcaacaa 300

gagaccacag cctccattca gagcttaact aatcacgtgg gacagtcggc tacacagttc 360
aatcaacaac agtcccagaa ttatgataga ttaccttttc aatc 404

<210> 19568

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ccagccata cctatttgc cacttagttg atccttgact cgagcccca catttttggg 140
aaagaacatt caacatttct ccaacctaat tctctgctta caactcttgc aaaacaaatt 240
ccaaatatcc ctgattgaat ggacctgctc cactaaagcc ttcataaata aaataaggtc 300
ccatgcaaaag gctaaggcag atataactgg accatgtctc acaagaagaa tatggcacca 360
tactctttg 369

<210> 19569

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19569

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gtgaagaaga atgtggcatt tacttagggt gaaaaacaag agcaagcctt tgctttgctc 120
aaagaaaagc ttactgaggc acctgttcta gctcttcttg actttttctaa aacttttgag 180
ctanaatgtg atgctctctg agtgggagtt ggagctgtat tgttacaagg cgggcacctt 240
attgcttatt ttactgaaaa acttcctagt gccaccctta actaccccac ctatgataaa 300
gagctttatg ccttaataag agccctccac acttgggaac attacccttg ttccaggaa 360
tttgcatta tagtgatcat caatca 386

<210> 19570

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 19570

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tgccttcttctt tcttcttctt tcttcttctt tcttcttctt tcttcttctt
tgccttcttctt tcttcttctt tcttcttctt tcttcttctt tcttcttctt
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tgccttcttctt tcttcttctt tcttcttctt tcttcttctt tcttcttctt 300
attgatttgt taaaatttta ttttaaagta atcaaaaata aattgtaaca ttattatttt 360
tatttttttg aatttgaact aatttgaatt aactaattaa aatagaatta atgacactta 420
gctaattgctg aatg 434

<210> 19571
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19571

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ccgagggata aacacatcta aagtaagggtg ttagattata tgataatata ttctgatttt 120
atataattct tatatctatt agatttatct ttagtcatat ctttagctat taggtttatc 180
tttagttnta tagttgttat atctattcga tttatcttta gccattccat tagattttatc 240
tttagccata tctttagctt atatatcttt agcttgtaac cttatatata agagaatggt 300
gettaatgaa ttaattcaagg aaacaatttc tttcatggta tcagattgct taaggaaata 360
tttttgaacc ttcttcagcc ttccgcacac aggccttagc gtctgtttagc cctttcttc 420
ttcttctccc cttctttct 433

<210> 19572
<211> 330
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19572

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 aatttgaacc tctcgcaagg gtttggggtt tctgctcttc tcttgaccac catcacagac 120
 tttcccttc catgcagcat cctgcagcaa tgcagcagcc tgaagcttat gctgcaaata 180
 ttttctat tttttttt tttttttt tttttttt tttttttt tttttttt
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
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<210> 19573
 <211> 330
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19573

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 tcttctatctt ccagattggg aatgcctcta acagcacctt tctaatgat tttcttcatg 120
 cctcttaagt gcagatgtcc aaatcttga tgcctatctt tgacttcctc ttttttggag 180
 gatagacatg tggaggagta gctagtttct tggggtgtcc atangtaaca attgtctctt 240
 gatctgtctc ccttcattag aacttcactc tctcatttg tcaccaagca tcttgacttt 300
 gtgaagttta cattgaacct ttcacacac agctgactga tctgatcaa gtttgccgtc 360
 agtcccttca ccagcagtag 380

<210> 19574
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19574

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 atatagacgc tggaaattga acaacggaag ctctccagat attcaaatgg tcataacttt 120
 taacttggag gtcgattctt ggcacataat atatcgagac gcccgaaatt gaacaacgga 180
 agcaactgag aaaatcaaat ggtcaatcct ttttaactga aggtccgatt caagcacatc 240
 acataragag acgtctgaaa ttgaacaacg caaggtctctg aatatattca auaattataa 300

cttttaactc ggaggtccga ttcaggcgca taaaatatag aaactgtcga aattgaacaa 360
 tggaaagctct cyagcaattc aaatgggtcat aacttttcat tcggagggtct gataactagcg 420
 catgatatat cyagaagct 480

<209> 19575
 Glycine max

<210> 19575
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 aaaggcaaga aagagaactga gactttctga tctagtttgt ttctcaaaat cacatatttg 120
 accctatttt ctttggtaac tcattttcta attactacct aacaaatatt ttgaaagaaa 180
 ataactotta atatacgcg gataggagca ggtaaatcca tattaataag ctgcaaaatt 240
 tggcaaaagga tacatccaga tcttatgcga tcgagttctc cattgaaaat aatcacttct 300
 cgttcagtgt tcaagaccgc ctctttataa agttcttcca caacaagtat ttctgaaata 360
 caagggagca gtaatcatga ta 380

<210> 19576
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19576

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 tagtagattt tccaccacc ttgtcccggt aactccatgg ttcagacaat gtagaccaag 120
 cataaacatc accaccaccag ttgtctttgt tattttttta acaagatgca ccacgcccac 180
 catgcctccc accagctcca tggttgccaa caggtgtgoc actatttttg gaaggtggag 240
 accctcctaa agatgatgag tctatataag aattgtatcc cattgtcaga ttggttgcaa 300
 ataaaaccac agagccagaa acaatggatg catcttgacc aagtctaaag ttgcgggata 360
 cattgaactgt tatcatacac ccttncatgg gacataaaag tgacacatca gagagtatc 419

<210> 19577
 <211> 392

<212> DNA
<213> Glycine max

<400> 19577

atattatga ttttaattcgg aatcctaat caaaagttat tctcttttga atttgcctac 60
tctcttttga atttgcctac caaaagttat tctcttttga atttgcctac 120
tctcttttga atttgcctac caaaagttat tctcttttga atttgcctac 180
tctcttttga atttgcctac caaaagttat tctcttttga atttgcctac 240
tctcttttga atttgcctac caaaagttat tctcttttga atttgcctac 300
tctcttttga atttgcctac caaaagttat tctcttttga atttgcctac 360
tctcttttga atttgcctac caaaagttat tctcttttga atttgcctac 382

<210> 19578
<211> 430
<212> DNA
<213> Glycine max.

<400> 19578

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atttgaaatt atttatttga ggttataaaa gtgactaatg aaattttctat aagtttttca 120
ttgtattgga ccttagatgt aacaaaactt ttgttttggg tgctgtcaa gtatgaagta 180
acaatgtagt gtcatatcat cacttagttg acgataaaga ttcaacaaaa gttttgatat 240
atcaagacaa taatgtaacc aaaaaattta ttgaagaccc aaaataaaaa attgtcattt 300
atcatgaatt tcacacatat ttaattcttt cttttattta caagagtttc acgttcgaat 360
ttattaataa gctcttattt aataacattc tattgaatag gtgcttcatt aacttcgtta 420
cctcaatatt 480

<210> 19579
<211> 428
<212> DNA
<213> Glycine max

<400> 19579

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tgattacca gtatgtttga acattggaat tcaaatcaaa ttgtgaagag tcacatcctt 120

tcaaaaaaaa gttttgtgta atcgattaca ctgatttggt aatcaattac bagtgaragt 180
 ttctgaacaa aatcaaaaaga tgtaactctt ccaatagttt tcaagttttt tttaaagtca 240
 taatttttcc aaatgggttt taagttttcc taaagggtat aactgtttt : at tttttt 300
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
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 tttttttt

<I10> 19530
 <I11> 337
 <I12> DNA
 <I13> Glycine max

 <I23> unsure at all n locations
 <I33> 19530

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 ctatgcaagt tcaaaagcctt ggaggaaaga ggtatgccta tgttgtttgt gatgatttct 120
 ccagattttac ctgngtaaac tttatcagag agaaatcaga aacctttgaa gtattcaaaag 180
 agttgagtct aagacttcaa agagagaaaag actgtgtcat caagagaatc aggagtgacc 240
 atggcagaga atttgaaaac agcaggttca ctgaattctg cacatctgaa ggcacactc 300
 atgagttctc tgcagccatt acaccacaac agaatgggat agttgagagg aaaaacagga 360
 ccttgcaaga ggtgtctcgg gtcctgc 387

<I10> 19581
 <I11> 392
 <I12> DNA
 <I13> Glycine max

 <I30> 19581

tcaaatthca atttcagagc tctcgatata tgacgggttc taatcagaca tccaggtaaa 60
 aagttattgt cgtttgaatt ggttcagagc tcaacatcc aatttcagag gtttcgatat 120
 attgctggac tcaatcagac atccaggtaa aaagttattg tggtttgaat tggctcggag 180
 ctcaacatt caatttcaag cgttcgata tatgacggga ctcaatcaga cactcagata 240
 aaaagttatt ggccttggaa tggcttaaaa gtttaacaat taaatttcaa ccccttcaat 300

atattacgga attcattcaa acttccgagt aaaacgttat tctcgttggg attgcctaag 360
 aggttcaaca ttcaatttcg agcgtctoga ta 392

<210> 19582

<211> 114

<212> DNA

<213> Glycine max

atattacgga attcattcaa acttccgagt aaaacgttat tctcgttggg attgcctaag 360
 aggttcaaca ttcaatttcg agcgtctoga ta 392
 agatagttcc gaagaaaaac agcctcaccg tgatcaaaaa tgagaaagag gaggtaggta 120
 ctactcgggt gcagaacagt tggagagttt gcctcgacta taggagactg aaccagggta 140
 ccaaaaagga ccattttccc ctgcattcca ttgacaaaat gcttgaatgc cttggaggta 240
 aattcacta ctgcttccct gatggttttt ctgggtatat gcaaatcact attgccccta 300
 aagatcagga aaaaaccaca ttcaatttgc ctttcggcac ttttgcctat 350

<210> 19583

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19583

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 catcagtggt caagatgaac aaaggctctc tcaacttcag ggagttcttc gatccttate 120
 tgcattgatt ctccaattgc atgtgcttct ttcagtggaa gatcctccgg tagttctatg 180
 tccacctggt tatgtccaac atggatcaga atttcaaat agtttatata aaattccctt 240
 taaatttggt aacatcaaat gtgttttatg ttaatacata tccatggag attgggtaaa 300
 gacatgggt ctacatcaca taagaagttc cttctttatt gagaaaaaca tgttttaagt 360
 ttttcaataa ggataaatta ttatataatn tgcgaccaan attatatatt ccgaactage 420
 tttacataat 430

<210> 19584

<211> 426

<212> DNA

<213> Glycine max

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<223>      unsure at all n locations
<400>      19584
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ttatcctgcaa atatttataa tagacccctt cagcagctta accaacaaca gagaataat	60
gagcagctta accaacaaca gagaataat ggcgagctta accaacaaca gagaataat	120
gagcagctta accaacaaca gagaataat ggcgagctta accaacaaca gagaataat	180
gagcagctta accaacaaca gagaataat ggcgagctta accaacaaca gagaataat	240
gagcagctta accaacaaca gagaataat ggcgagctta accaacaaca gagaataat	300
gagcagctta accaacaaca gagaataat ggcgagctta accaacaaca gagaataat	360
gagcagctta accaacaaca gagaataat ggcgagctta accaacaaca gagaataat	420
gagcagctta accaacaaca gagaataat ggcgagctta accaacaaca gagaataat	480

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<010>      19535
<011>      2.2
<012>      DNA
<013>      Glycine max
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<400>          19535
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ttttctatctt ttatatcgcg aatgcctcta acagccctct tctcaatgat tctcttcatg    120
ctctttaagt gcacatgtcc cgatctttga cgccatattt tgacttcac cctctgtgcac    180
aatcacatg cggaagactg actggccctt tcatgcctcc at                                222

```

<210>	19586
<211>	385
<212>	DNA
<213>	Glycine max

[illegible]

caacatgaact ctgtcatata acgattggca tgaaattctt cctttcatgc tgcattgcta 360
 togaacctcg gtacacacat caatc 385

<10> 19597

<11> 431

<12> DNA

<13> Glycine max

tctctgttggc tctctttaga acctttcaca agaggcttc ttaggaaggt acatctt at
 ctatccaccc ctctattaac taaattaact tctttaaaaa taattacgga tgaaaataac 100
 gcaacaaata atcaaacatc aaacataatt actaataata tatagatata tatatatag 140
 ggtgttacia ctctccccc cttctagaaa ttctatcttc gaaatttacc ttactcaaac 240
 aaggatgggt gagcttctcg catctgaatt tctaatccc acatggcatc ttctctgat 300
 gcacctccc atatacctt gaccaacgaa atctctttcc ctcttaggtg tttgttctgc 340
 caatctctga tctcaaaagg caatatttca tatgtcaaat tctctttcac ttgtacatca 400
 tccaattcaa tca 433

<10> 19588

<11> 431

<12> DNA

<13> Glycine max

<23> unsure at all n locations

<400> 19588

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 ctacaatgag ttcttttgat ttttgtttta gaatattagg atttaaaacc aactaatraa 180
 ataacaatca taggtttcat ttacaattta tatatgtaaa caaattaatt attagatcaa 240
 aattaattgt cataaaaattt attatataaa ttacagatgta ctttgaatat acataagaca 300
 ttgtagtctt atatatagcg acattaatta ttctataaca taattagcat attagtctcg 360
 ttgattagag cgaatgcaaa agtcacaggt tggattctcg caattacccat taattctaga 420
 tcaacttatu a 431

<210> 19589
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n. locations

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 ttttgggtttt ttttgggtttt ttttgggtttt ttttgggtttt ttttgggtttt 181
 cttcttttatg tataaaaaaaaa gtgtccagtg gaagggggaat gaggtctaac ggoggttaggg 240
 gatggaaccc atagacaacc tcaaaagggg attgcttggg ggttctatga acccccctgt 300
 tctatgaaaa ttctacatga ggaagatcct catcccaaga cttatggttg cctttcagaa 360
 gagcccttan aagggtggat aaagacctat tcactacatt tgtttgccc ttaggttgtg 420
 gatgacaagt ggta 434

<210> 19590
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 19590

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 gtcaacgtgc tccatcatct ctccgaactc ctgcgcctcc atcagcgtcg acgtgcgcgg 120
 aatcccctcc gcgggcgcgc gcttcgcctt cttcgactcc cttgtccgcg ctgcgcgggt 180
 gcggtttccg aagtgcgcga tctccgaatc gaagaaggac caatgctgcg aggaagagtc 240
 ctgtgaggag aacgcgaagc cgcagagagg gtctgcaatc tctgagata aggaatccct 300
 gaatggctcc gaaacgtcgt cgttttagaga ggacgagccc gaatacgttc ccgagagggg 360
 tcccttgccg ccgccgtatg tgcggacgat catctt 396

<210> 19591
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n. locations
 <400> 19591

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 ccttagccta gattctgggc ccataaggca agtaccagcc cacttatctt tctaaatatt 180
 tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct 240
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 tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct 360
 ataaaattaa ttgaa 375

<210> 19592
 <211> 428
 <212> DNA
 <213> Glycine max
 <400> 19592

ttctccacta agttgcctaa tgctgaaat gtctctctta atggcaatgg tcttagatgc 60
 agggaagaat ttttccatga acacctatt aaggctatcc cagctgaaaa tagacctggg 120
 agcaaggtag tatagccaat cttttaccac tcccttcaga gaatgaggaa aagcctttag 180
 aaagtcatga tcttcttgga catcaggggg cttcatgggtg gaacaaacaa tatggaactc 240
 cttaagatgt ttatgaggat cttcacctgc aagagcatga aacttgggct gcaaatgtat 300
 tagtccagtc ttgagaacat atggaacacc ctcatcagaa tattgaatgc acaagctttc 360
 ataagtgaat tcaggtgcag ccctctccct aagaatcttc tcacgaggtg gaggttgatc 420
 catgtctt 428

<210> 19593
 <211> 395
 <212> DNA
 <213> Glycine max
 <400> 19593

gcctctcgac atattatgcy ccggaatcgg acatccgtgt tatatgttat gaccattcga 60
 atttctcgag agcttacyat gtccaattcc gagcgtatcc acatattata tgcctgaatc 120
 ggaagtcggt gtagaaaatt atgaccattc gaattcccg agagcttacc ttatgcattc 180
 tggagcgtct ctacatgga tgcgccttaa tgcgaacatcc gtttctaaaag ctatgaccat 240

ttgaattttct ccagagcttc cgttgtccaa ttctgagcct atcgatatgt tatgcgcccg 300
aattggacct tctgttgaaa agtcctgacc atttgaattt cactagagct tacgatgttt 360
aattctgacc gttctctcat attatctccc tgaat 375

<210> Glycine max

<400> 19594

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aactatatta tctacacaaa aggtacactt ctctatatct gcatagaggg tgttcttctt 180
aaggactgaa agaacttgtc tgagatgtcc taagtgtaca tctacgtccc tactatacac 240
taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300
cataagcttc ataaaggtgc ttggtgcatt agtgagccca aaaggcatca ctagccattc 360
atacaaacca aacttgggtct tgaaagcagt ttccactca tcaccctttt tctctctgat 420
ttggtgat 428

<210> 19595

<211> 426

<212> DNA

<213> Glycine max

<400> 19595

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ccaaaacatt cacaagggtc tctgcaatga ctctgtcacc ctcatgggga aggaaattct 120
tcttttaggt gcatgataaa aaggtatgga gttccaaagt ggaaatacaa gttttatagg 180
tgtgcctagc agtggataaa caaccattgt atcttaatat cagctgtctg aggcataatg 240
taggagacaa atcaaatctc ttgcctctaa aagctaaaga aggaggattt gtaacctttg 300
gtgacaacaa caaagggaga attctcagat acctctttat gatgatgatg atgtaagaag 360
tcttaaagaa tctctctcta caagtgaaaa ggtagtgaac aataaccttt tgaagaaca 420
ccact 426

<210> 19596
 <211> 330
 <212> DNA
 <213> Glycine max

<214> 19596

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 agctctctctt cttcctctctt gggctctctt gggctctctt cttcctctctt cttcctctctt 180
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<210> 19597
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 19597

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 ggcctcaaaag aggtctgaac ttggaagtgt aattctcaaa tgatcaaaagt tgaaaaaatt 120
 cacacacatg ggcctctattt atagcctaag tgctcacaaa aattggaggg aaatttgaat 180
 ttctattcaa atttcaattg aatttgaaat tgaatttgtg gagccaaatt ttggagccaa 240
 aatttcaacta attatgatta gtgaatctta gttatgggtt agcccaactaa tccaagatca 300
 agtccaagat tgcctcaacta gtgtgctttg gtgtcatgag gcctgttaaag catgaaggac 360
 atgcacaaag tctgactata tgatgtggca atg 393

<210> 19598
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 19598

agctctctctt cttcctctctt gggctctctt gggctctctt cttcctctctt cttcctctctt 60

aagtagattc agaaaaataat tacattttatt attatttttga ttaactttctg aatatgggtgt 120
 aaatctttatg tgtgtctgac atatttaaaca agtbaacgtc taattttattt gattagaata 180
 tgaattctgtc taaccaaatt aagatgttta ataagtaagt ttattttaagt attttaract 240

<210> 19599
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19599

tgaaggggggt tttaaattaa tgggtgtgac ttatggttat taaatggtta tgttcgactc 60
 ggaatgctaac cgtatagaacg acatcaatgy aagacogtgg atgatgttcg attattatct 120
 natggttcat ccattggactt caaaatttct ggtgacagaa gcaacaatag accaaacott 180
 ggottggatc cgtttttccaa gtctttggat ggtctatcat gatgagactg tattactgac 240
 cttggcatca actattgcaa caccatcaa ggttgatcta aacatcttga atatgpatag 300
 gggaaagttc gtgcgattat gtgcataaat taatctcaat gtctttgtcg tgggagattt 360
 tgcacatcatg gaaatcggtt taatatagaa tatgacgcgc ttcattttct 410

<210> 19600
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19600

agctttcttgt tttttgcatt aaacgacaag aaaagatact agtatatgaa tacatggcta 60
 atygaagcct acactccttt atttttggta cgtaatatga agaattgcttt cataatttga 120
 ttaagtggac ttgcatgttt gcttgttttg tttgtttttt aattccagtc acaatttagcg 180
 gctcttttaat cttgaatata ttatatgaa tgaatagctt gcttttgtcaa atcacagata 240
 aaataaaggg taaattttctg gatgggcttc gaogcttcca cataaatattt ggaataaactc 300
 gaggacttct gtatcttcat caagatcttc gattaaagat tttccataga gatctcaaad 360

caagtaacgt tttacttgat g

381

<210> 19601

<211> 436

<212> DNA

<213> Glycine max

gtaaaaggta gggttggcat gttttcaag ccgtaactaa ggcataaagt tccatataat 120
aagttgaata gttaagggtta ggaccactta acttttcaat aaaataagca attggatggc 180
ctttttgcat caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaag 240
atttttgaaa gtttggcaac gcaagtatgg gggcattagt tagcttttgc ttaagaacat 300
tgaaagcttc ttcttgtttc tctcccatc tgaaaccaac attttttctg agcaattcat 360
tgagaggtgc tgccaatgtg ctaaaatcct tcacaaaatcg tctataaaaa cttgctaagc 420
catgacaact cctcac 436

<210> 19602

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19602

ctgttgcgaa ggtgccccaa ccgtaacttt gatgatgctg cacaactgca tatcttttat 60
agtgggttga aacctcaaac caagatgac cttgatgcct cagctggagg caatatgatg 120
tccaagagtt cggaggaagc tattaatgta atctccattg gagcttgtag gactaggata 180
ttcttcatca atggattcct ttgcttcttg gaagatgaat gtcagcggaa tggagaagga 240
agagagagag gagaagccac ttcaaggaga agatgagtet agaagaagct caccaccata 300
agaggccatg gataacagcg tggaggaaga acgagatgaa tgaagggaga gggagagaag 360
agcaagatat ttgagctca taaagagctc tgaaatctga agtttaatat tcanatgac 420
aaa 423

<210> 19603

<211> 431

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19603

atgacacacg ccttgggttc ccttccacac ccttctttat ccttccatttc ccttctctctc
 atgcatlggg ggggggggtt atcggcttcc gttaccagac ggtgctaaga tacattcagt 241
 cttccattgc tctctgctta agccattcaa ggggttcacca acacaatctg aaattgcata 300
 cttaccagca caattcatta atggacaacc tatgattttct cctctcgtta tcttcaatga 360
 tcaaaagggt ccaggatcaa caccagactc ctgngaagtt ctggttcaat ggcaagggtat 420
 gtcaccagat a 481

<210> 19604
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19604

tctatagaag gttcgttctt aattttctta caattgcatt acctctcaat gagctggtga 60
 agaagaatgt ggcatttacc tgnngtgaaa aacaagatca agcctttgct ttgctcaaaag 120
 aaaagcttac taaggcaact gttctagctc tctctgactt ttctaaaact tttagagtag 180
 aatttgatgc ctctagagtg ggagttggag ctgtattggtt acaagggtggg caccctattg 240
 cttatttttag cgaaaaaact catagtgcac cctttaacta cccacactat gataaagaac 300
 ttatagcctt aataagagcc ctccaaaact gggaacatta ccttggtttcc aaggaatttg 360
 tcaattcatag tgatcatcaa tcaactaaagt acattagagg gcaaagcaag ttaaaccaaga 420
 ggcattgcaaa atg 483

<210> 19605
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

ggttttcaaag cacatccatg aacacttttc ccaacctcaa aattgttcgg tctaaacccc 300
 ataacctca totggcagaa aagtagcaac gaattttcat ggcagtaatt ctccagcatag 360
 caagccatca tcccagtcga agataccatg cccctacaac aaatcccato ataaacttgg 420

<210> 19608

<211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19608

ajcttgaagt gatctctatt ctgatgtgtg tggctctttt gaagtgaat ctctaggagg 60
 ttaacagttac tttatgtcat tcattgatga atttactaga aaaatgttga cctatctcat 120
 ttaagtagaaa agtgaagtgt ttaacatttt taagaagttt aagctgttga gtgaaaaaca 180
 aagtgtagat gcaattggct ttgatgtttt gatgatgac atgatgatgt gttgcaattg 240
 atgcaaatgg gcttttcaa attaaaaatt aagacaatac ttaagatta caaggcacia 300
 catcaagatg atcactagaa tattangaag ggaattccta attgaattag caaagggttg 360
 gccaagtgat ttaacaataa aagtgttttt cacagctttt acctctctgg aatcgattac 420
 cagaagatgt aatc 434

<210> 19609
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19609

agtttcttat tcaaggcaca ttcttgggtg cgaagctcct tcttccatgg cttattccct 60
 agtggatggg gcctctcttc acctcttttc ctctgtcttc cgttgaattc ccatggtgaa 120
 aaatcaccat tgaatgaagc tcaaagatcc agcctccata gaagcttcaa aagcaagctt 180
 ccatgaattt ctctcccttc ccttccactc atcttctcct accttcaagc tcttaccat 240
 ggttctctat gttggtgagc ttttcttga ctcatctttt ccttgaactg ggtcttccaa 300
 tcatctttct tccatctcca tcttcttacc ctttaaacttc aaaaaccaaag gactccatt 360

gatgaagatg atccaaggcc tatatgctcc acattgagtt acattacgaa atatacttgt 420
 ttgacaatgt agacaattac 440

<209> 19610

<210> 19611

<211> 426

<212> DNA

<213> Glycine max

agcttctgga aggagttcta ctgatgttc tatgctctt gaaggtggta gtccatgagg 60
 aatctccata ggaaagacat ttttaaatto ctgcaataag ggttgaacac taggagaaat 120
 agaaatagta aactcattag aattatgagt agaaatttta ctgtctttgc aatactgtag 180
 attgagtggt tcatgagcag gtaacatttt cctcacttca ctgctctctg caaaataatt 240
 aactttcttc tcatgtgtat cactctcttc ctgggtgta tcaactcttc tcatattcct 300
 ttgtggcgcc tcaactatttt cttctctctg atctctctct tctctcattc tgatttgagc 360
 atcacacact tctctaggng atagatgttt aagagt 396

<210> 19611

<211> 426

<212> DNA

<213> Glycine max

<400> 19611

tcagaattca atttcgagcg tctcaataga ttacggttac tcaatcagac attcgagcaa 60
 aacattattg tcgtttgaat tagctcagag cttcagaatt caatttcgat cgtctcgata 120
 tattacgggt ctcaatcaga catctgagta aaaaagttat tatcgttoga atttgcagag 180
 agcttcaaca ttcaatttcg agcgtctoga tgttttatgg gaattaatca gacatccgag 240
 caaaaagtta ttgcggtttg aatttgcga gagcttcaac attcaatttc gagcatctcg 300
 atataattac ggactcaatc agacatccga gtaaaaagtt atcgctggtt gaatttggtc 360
 agagcttcaa catccaattt ggagcgtata catatattac gggactcaat cagacatccg 420
 agtaaa 426

<210> 19612

<211> 283

<212> DNA
 <213> Glycine max

<400> 19612

ttcgaagccc gacataaaga taccgagacc atcgatatag tacaacggag atgctgaaga 60
 gctgctgctg gctgctgctg gctgctgctg gctgctgctg gctgctgctg gctgctgctg 120
 gctgctgctg gctgctgctg gctgctgctg gctgctgctg gctgctgctg gctgctgctg 180
 gctgctgctg gctgctgctg gctgctgctg gctgctgctg gctgctgctg gctgctgctg 240
 agaaattcaa atggtcataa cttctcccac ggaatgtctga atc 283

<210> 19613
 <211> 432
 <212> DNA
 <213> Glycine max

<225> unsure at all n locations

<400> 19613

agcttgcttt tgcagtaaag catgaaagac atgcacaaag tctgactata tgatgtggca 60
 ataggggtgta gtaagcaaat gctcacctcc cccctctaaa ttttaattgga ttgggcttct 120
 accaattcaa tttaaatttat ttcccaacac acatatcaaa tattcactta gtgcatgtga 180
 aattacaaaa ctacccttaa tacaacaaact agtctatgtg cccctaaaata caagagctga 240
 aaaatccctat atttctaggg taccctacct acattatgga gccctaaata caaggaccaa 300
 atataatgac atcctagtct aatatgtata aagataattg gactcaacct tggcctgtgg 360
 gctcagacat ctaccctgag gatcatgaga accctanggt cttcttcacc agctatagcc 420
 caatcctctt gg 432

<210> 19614
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 19614

tatcataatc gattacatag ttgtttttgt gacaattatt gattttatta ggagtctctg 60
 ttttaattga ttaccatgic atataatcga ttacttttct ttttataagt gtctcagaag 120
 taaacaagaa cactttaatc gatttcttgg agtatctaat cgattacatt gtctcttaag 180

tgtttctagt tttttggaag aacactacaa ttgattgaaa gataatataa tcaattactt 240
 cattgaatta attaattacc ttgtagattt aattgattac aggcgggtat aactgttttc 300
 totataaata accacattgt gttctctcta ataacataac attttgagct totgaaagag 360

<211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19615

agtttgtata aaattgaaac gacaaaaatt tttatctaag atttcogaat aaattccgta 60
 gtatatcgag acgctcgaaa ttcaaaataa acctctcagc aaaatgaaac gacaataact 120
 ttttactoga atgttcogaat gaatcccgta atatatcgag acgctcgtaa ctgaaaacag 180
 aagctctgag caaattcaaa agataataac tttttactcg taagtcogat tgtttcctgt 240
 agtatatoga gacctcgta attgaaacca gaagcccgta gcaaaactca acggcaataa 300
 atttttactc ggatgcocga atgaatccca taatatatcg aggcgatcgt aattganaac 360
 agaagctatg agcaaatcca aacgacaata actntntact cggatgtccg aatgaatacc 420
 atntaaatcg gat 433

<210> 19616
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 19616

tctggtatca attacgagcg tctcgatata ctactgttac ataateggac atccgagtaa 60
 aaagttatta tegtttgatt aggetaagag cttgtgtttt gaatttcgag cgtcttgata 120
 tattacagga ctcaatcaga aatccgattt aaatgggtatt cattccggaca tccgagtaaa 180
 aagttaatgt cgtttgaatt tgcctcagc ttctgttttc aattacgata gcttcgatat 240
 attatgggat tcaatcgagc atccgagtaa aaatttatcg ccgtttgagt ttgttaacgg 300
 cttctgtgtt caattacgag ggtctcgata taatcacgga aacaatcggg cgtacgata 360

acaagttatt atcttttgaa gttgctcaga gcttctgttc tcagttacga ggcctctcgat 420
atattacgg 439

<10> 19617
<11> 19617

agtttgctat tgaattattn gattncagge cagggataat ttccattaac ttggacetta 60
agaggggtgc aagtggcagg ttcttgaaga ctgctgctta tggccacttc ggaagagatg 120
acccagactt cacatgggag gtggccaagc ctctaaagtg ggaataatgc catgaataaa 180
gttgattgdc aagaaactat gtttgatctt atatgctttc atacctaaaga tccgtgatat 240
gactttgect tagcttttgt atctttataa ataaataaaa catatatatg tcgagttgag 300
tatatgaaca taaaaaggaa gctgcatagc agcatcaatg tactattgga agttaatgtt 360
tgagatatat ccgttaacat cgttatccat tatccattat gtttctcttc aattgctgag 420
agtcttagag aatcttga 438

<10> 19618
<11> 363
<12> DNA
<13> Glycine max

<40> 19618

gggagggcga cgcgagactc acgggtgcgt ctcccaagaa aggaaaatgc atggagtgc 60
caccacggtt tatttgggga aaacatccga aaaaccgaaa aagacgttgt ctacaaactt 120
taagtgtgag gctcgagagt tgtatttacg caccgggaag gtattatcac ctgttagaca 180
agtggcctca gatattctaa gaaggggggg ttgaattaag atattccaaa ctgtttccgc 240
taattaaaaa tctattttat tttttactca agttataaat tcccttaaty acaatcttct 300
taaatattaa ttcaaatgaa gcaacttgaa tatgattata tagcaataat atatatagga 360
gat 363

<10> 19619

ntcatatcac ttggatgctt cattgcttca aataagtcga atgatacttt ctgactctcc 60
 acacccaatt ctaacttgcc ttccccata tctactatat agttggccat gaaatttgta 120
 gggctctctt ctatatccat aaccacgaaa tctgcaggaa atacaagctg cttgaactga 180
 tctgctctctt cttactctctt tctgctctctt tctgctctctt tctgctctctt 240
 tctgctctctt tctgctctctt tctgctctctt tctgctctctt tctgctctctt 300
 tctgctctctt tctgctctctt tctgctctctt tctgctctctt tctgctctctt 360
 tctgctctctt tctgctctctt tctgctctctt tctgctctctt tctgctctctt 420
 gtactacagt tac 433

<210> 19622
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19622

agcttatgtg aattcgtagt tttataagca aagagtaaaa atttatcata ataaaaagct 60
 ttcaaaaaga attttcagcc tagccaacag gtattgttat ttaattccaa attaagattg 120
 ttttcaggta agctaaaatc caagtggctt ggaacattca gcatcaaaga agttatgcta 180
 catggagcaa tgataattgg aggatccagc caccaaaaaga acatgcatcg tgaatggcag 240
 tagaatcaaa cctacttan gtcgtgattt caagagggtt accactgttg tccaaactaca 300
 agaggctnga accacaacaa ggatgtccag cttanacgat gttaaataag cgctcttggg 360
 aggcaatcta gtatttttca actcttcttt taatatnnn tttctgatta cgtaattgtg 420
 ttgtgtaata tcta 434

<210> 19623
 <211> 422
 <212> DNA
 <213> Glycine max
 <400> 19623

ctaggaggaa gcaggacatg gacgtcagtt taacgttttag cttctgcact tctaaacat 60
 tggtaggatt gtgaatcact agtatgtttg tgcatttgte ggggttggct tctattcctt 120
 gatgtctaatt catgaacccc aagaacttct caccgctac cccaaaagtg catttttcca 180

ggttgatgag catgaagtaac ttatggattt ctctgaacac ctcttctaag tatgccacgt 240
 gttaggctat gctttgagac ttgacaatca tgcctcaac ctgaccttg agattttttc 300
 tcatatcttg ttttactatc ctttctatca gtttctata tgggttgctt acatttttca 360

<210> 19624
 <211> 427
 <212> DNA
 <213> Glycine max

<225> unsure at all n locations
 <400> 19624

nnaacataaa gaacaaaaga ctggcctctg cagcaatatt atacattgag caaacaacac 60
 tgatctcaaa tgggtgataa aattctaatt aatcgcaatt ggaagcttca taacatttaa 120
 ttgggataag attttatatg taattattat ttactttgtc aaataacaaa cttaattgtaa 180
 caatcttate attagatagt cattgagaag tgaatagaat gaaatgcate ttatttggtt 240
 atttaatttc acctttttca ataactaaaa tatgtataat gttttctaac tcccgttcta 300
 tctttaaaat gtatctact cgaactagtt cctgggcat ttatttatatg ggtatttaca 360
 agtttaaata aattttaaaa ataagaatta tatgaaaata tcattattgt tcaataataa 420
 atatcat 427

<210> 19625
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 19625

tctgcttatg ctgnaaatat ttacaataga cctactcaac ctccagcagca caatgaacca 60
 cagtagagca attatgacct ttccagcaac agagacaacc ctggatggag gaatcacctt 120
 aacctcagat ggtctagccc tcatgaacaa caacaacagc ctgctcctta ctccaaaaat 180
 gctgctggcc caagcagacc atacattcct ccaccaatcc aacaacagca acaacccag 240
 aaacagccaa tagttgaguc ccttcacaaa ccttcctctg aagaacttgc gaggcgaatg 300

actatgcaga acatgcagct tcagcaagag accatagcct ccattcacag cttaaccaat 360
 cagatgggac aattggctac ccaattgaat caacgacagt cccagaatto tgactagctg 420
 cttctcgaag ctg 453

<11> 19626

tgctctcaac aaacaaatca aaatcaattt tctgattctc aaaacttagc tccagcttcc 60
 tttcccccac atcaactatg cagcttgagg tcaacatgaa tttctctccc aatattatag 120
 ggatgtcaat atcttcagag acatccatta ccataaagtc tacggggaag ataaaatatt 180
 ttaactcgac caaaacatct tcaattactc catatgaact ggtaatggag cggctcaacta 240
 attgtaaagt cattcaagtg gggcatttcc aactctccca atctctcgca catggagagt 300
 ggcacaaaat tgatactggc tcccaggtca ataagagctt tctctacatt gactctccca 360
 attgaacaag gaatcgttac actcccagga tctttatgct tgggtggaag gatcttcta 419

<110> 19627

<111> 429

<112> DNA

<113> Glycine max

<123> unsure at all n locations

<400> 19627

ttcttttctg ggttgatgag ttctgtcttg cagaatgtcg tgatcactgg ctgacatatt 60
 ctcaattago ttagtgtctt ctccgggggt ctccaacttt attttttccc ctgcagaagc 120
 atctagtagt tctgtggttt gtggtctcaa cccatctatg aacatattca attggatggg 180
 ctctgaaaac ccattgggtg gagttctctt caataaacct ctgaacctct ccaatgcttc 240
 actcaaaagt tcatcagggc actgatgaaa tgaagatatt gcagcttctc ctccacagt 300
 ctgggaactct ggcaagtatt tctttaggaa ctnttcaaca acctcttccc aggttttttag 360
 actgttacct tttagaggagt gaagccacct ctgggctctt cctgccaatg agaattgaaa 420
 taggcccag 453

ttcagccaat tcaccgcaca ataacttttt actcggatgt ctgattgagt cccgtaatat 60
 aaagagacgc tcgaaattga atgttgaagc tctgaactag ttcaaacgac aataactttt 120
 taactgggatg tctgattgag tcccgttaata tatggataag ctcgaaattg aatgttgaat 180

 cccctggagc atattcgaac gacaataact tttctctggg atgtttgatg gattgcgaga 420
 atatatcgag 430

<211> 19631
 <211> 415
 <211> DNA
 <213> Glycine max

taagggtcct tagtggcata atcacacatt atattttgta cctctaaaaa tatcatatga 60
 tataagaatc aaacttatat aatttcttac caactaaaca tgtgatgatt aaagcctatg 120
 aataatattt taatttcttt attagataat aataataata ataaatatcc ttgaatacat 180
 cgtctcgaag ttgcatacat acgtagccac aaataaatgt tacatatgta aatttatatc 240
 cagtaattct aaagaataaa taatcttttt aaaaggacaa ttttgatata ttcatatata 300
 ttttaagtaga tataattttt aaaacataag atgattatag gtattttgct agatatcata 360
 tagagataat gatatattaa agttgatgta acatatcctt gcctaagtga tcaact 415

<211> 19632
 <211> 351
 <211> DNA
 <213> Glycine max

tttcaagctt gccttgcctt ttgatataat cgagggactc atgggtcacta tgaatgacaa 60
 attccttggg ataaaggtag tgttgcctatg ttttcaaaag cggcactaag gcatacaact 120
 ccttatcata agtgaatag ttaagggtag gaccacttaa cttttcacta aaataaggcaa 180
 ttggatggcc tcttgcctc aacacagccc caatcccaac atttgaagca tcaactcua 240

tttcaaaaaga tttttgacaa gttgggaacg caagtatggg ggcattagtt agcttttget 300
 taagaacatt gaaagcttct tcttgtttct cccccatgt gaaaccaaca t 351

<210> 19633

<211> 132

<212> DNA

<213> Glycine max

<400> 19633

<210> 19633

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 cccatctctaa tacaatacta gaaggaaatc catgcaacct tactactccc ttgatgtaca 120
 actccactag cctctacatt ctatacttca tattcacccg aataaaatga gcagatttgg 180
 tgagtcgata tactatgacc cacacaacat catgtccacg attagtcttg ggtaaaactag 240
 atacaaaato catagataty ctctcccatc tccattccgg aatttccaat ggtttcaatt 300
 cctctgatgg tegtgtgtgc tcagccttag cgttttgaca tgtcaaacat cttgtctaat 360
 attcagctac atctttcttc atgccccatgc caccaaaaat tctcttcaaa tcttggtaca 420
 tcttagtcat t 431

<210> 19634

<211> 327

<212> DNA

<213> Glycine max

<400> 19634

gaatctgtac ttcctaagag ggagcgcac ccactccacg tcattacaaa ctacctcatt 60
 ccttctctta tagcccttag ccgaatacac cttegatagg gtctctattt gacgcttaac 120
 cctctcatgc aacttgttta caaactctga cctacattac ccttctttat gtataaata 180
 agtgcgagc gggaggggaa tgatgtctac aggcgactag ggattgaacc catagacaac 240
 ctcaacacga gatagcttga tggttctatg aaccccccta tatgagcgga agtgtacatg 300
 ccgaagatac tcttcccaag acttatg 327

<210> 19635

<211> 430

<212> DNA

<213> Glycine max

agcttcgttta ttcagctcta gtgctggacc ttgccgtgac tttttgcttc ctggaccacc 60
atgatatcaa gtttgagcca agaaagatag ctgctcctga tgtggaacgt ctttcaccaa 120
tatctgatgc ccaatcaaca tcatagaaaag catagagtgc catacgttgt gaaacagaag 180
tcttttcaat tcttgggtt tctttttag tctttttag tctttttag tctttttag
tctttttag tctttttag tctttttag tctttttag tctttttag tctttttag
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<210> 19638
<211> 423
<212> DNA
<213> Glycine max

<400> 19638
taacacccgat gactatccca acatagctac tgagtatgga atcagaagca tatcaactgt 60
tttgtctcttc aaaaatggag aaaagaaaaga aagcgtagtt ggtgcagttc ccaagtccac 120
tttgtccgca acagtggaga aatatgttga tgtataaaact ggaaaggaag aaaatgctat 180
aacaaggaac gcttgatcat aaattatgga ccactttgct tttaatgggt ttcaacactt 240
caaaaagtac ttgtatcca catcttttac aacatttggt aaagattaca ttgtataaat 300
tccctcttct ctctctctgt gttctttctg ccatacatta cagttcactt cgcctaatc 360
tcatgccaaag ttaatttggc accattactc caggttttggg agtaaaactga aatttcaatg 420
tct 423

<210> 19639
<211> 426
<212> DNA
<213> Glycine max

<400> 19639
tgaagggtgtg tagcccacca tcttttcata gtagaattct ggttatgtgt ctactatcat 60
tgtcatcatt tttttctctc gtcattgagg tgcacttga gctgccaggt ctctccacct 120
ttggcgctat tttttgaaa gatctgtgcc ccttttttgc acatgttttg tagttgcac 180
ctatccgaag acattatact aacaatgctt aacgaaggca accactaggt cctttcaaga 240
atgcaactgg caaacttcca agttatgta ccaggttaaa gctaccctag taavacttct 300

ttggaaggaa tgtatcaaca attctctcacc ttttgcgtat gcccccatct tccgataata 360
catcttttaga tggttcttgg ggcaagtagt ccccttgtac ttgtcaaagt ccagcacctt 420
gaactt 486

Glycine max

<223> unsure at all n locations
<400> 19640

taagaataac atnnttttta atttggtttg attggaataa tattttatta tatatatatg 60
tgaatatataa aaatagaaaa aaataaaaaa gtataaacta cgtacaaaaa taaatgtacc 120
acagaaatca tatactttta aatgtttaat attcatttat attacatcaa ttttttttaa 180
aaaactaaca actaaattga ccgaaaatta catcaattaa cataattgga gtgtgaatgt 240
gtacaaaatg aattaattgt aattagataa tataaattat tcaaataata aatgcttcat 300
ataaatttgt gtatcattat ttttaggttt tcatagttct aagtgttttt actatttaaa 360
attattcacc attttcacct ttttttgtt tactaattaa tatgtttata ttatatattt 420
cactcatcat ttttaattg 486

<210> 19641
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19641

agttttattt ttttataata agagaacaat gacaattgaa gagttgattc atgtttactt 60
tgatgagttt aatgtttttt ctccaagaaa ggatatttta gatgatattg cagaatcttt 120
agaacaaatg cacattcata gacaagattc taaaggaaaa agagaaggaa gcaatgaaga 180
tcttcagta gatgtcaaag caaataatga tcttccaaga gaatggaaag cttanggaga 240
tcctcccttt gacaacatta tgggtgatac ctcaaaaggg gtaacaacta gacactctct 300
caaataatta tccaataaca tggcttttgt atctacgata gaacctaana atctanatga 360
accataata gatgcaaatg gataaagac tatgcaagaa gaaactatad caattt 426

<210> 19642
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 19642

ttttaggcat gttaggccca fgctattgtg caacacttgg gcaacacttg 60
 ggaatcccaa tagcaagcta ttgtgttggc ctcttccctt caaaaaagta atttaataac 120
 atgtgaatca ttgaaccaca tatcagatat taatctgata agaacagata ctacactcga 180
 tcttagccaa aaggccgaga aaggcatgag ttgcaatgtc ttgagaggct ctctttatac 240
 cgaacatca agtcattgtt atcttttcta agcgatgtag gatttcaatc acagtttaac 300
 attgacatt gatataattc atgctcgttg gtgcaaacaa ggggtgatttt gatgaatgca 360
 ttgaattaaa aagaaatcat gtcgagtggc tgtgagacgg catgtttcttg ttctgtgttg 420

<210> 19643
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 19643

taaactaaat tttagggcat gttaggccca fgctattgtg caacacttgg gcaacacttg 60
 agaatcccaa tagcaagcta ttgtgttggc ctcttccctt caaaaaagta atttaataac 120
 atgtgaatca ttgaaccaca tatcagatat taatctgata agaacagata ctacactcga 180
 tcttagccaa aaggccgaga aaggcatgag ttgcaatgtc ttgagaggct ctctttatac 240
 cgaacatca agtcattgtt atcttttcta agcgatgtag gatttcaatc acagtttaac 300
 attgacatt gatataattc atgctcgttg gtgcaaacaa ggggtgatttt gatgaatgca 360
 ttgaattaaa aagaaatcat gtcgagtggc tgtgagacgg catgtttcttg ttctgtgttg 420

<210> 19644
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 19644

tcttagtttc agatgatgca catgagtttg tagctacctc atgcactcct ctaatgacta 60
 tagcatcatt ttgggcgcta aactgttggg agttggaagc catcttctca attaaattcc 120
 tgggttcagc aggggtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180
 tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct
 tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct
 aaagtcttcc ccaatctctt ccaatctctt tcttctctct tcttctctct tcttctctct
 aaagtcttcc taagaatact ctcttgaggg atcccagctc gtgatgga 408

<210> 19645
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 19645
 tgtaatcgat taacacatata ctgtaatcga ttaccagagc agattttcag aaaatattct 60
 caacagtcac atcttttatg tggttcttga atggctatca aaggcctata tatatgtgac 120
 ttaagacacg aatttgctaa gagtttttca gaacaaaaag gtcttatact cttaaaaaagc 180
 aaatcgtttt atctctttac aaattccttg gccaaattac ttgtgattca ataaggaatt 240
 atttgagtac tcaaattggt caatctatct ctttcaagag agattttctc ttctcttctt 300
 cttcattctg aaaagggatt aagagaccga ggtctcttg ttgtgaaaga attctaaaca 360
 caaaggaagg gttgtccttg tgtgtttaga acttgtaaaa ggaatttaca agatagtgga 420
 actctcaagc 430

<210> 19646
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19646

agcttcaaca tcagaccact tccaggytgc tggaaactact tcacatggac ttgatggggc 60
 ctatgcaagt tgaaagcctt ggaggaaaaga ggtatgccta tgttggtgtg gatgattctt 120
 ccagatttac ctgngtcaac ttatcagag agaaaacaga cactttgaa gtaacaaag 180
 agttgagctt aagacttcaa agagaaaaag actgtgtcat caagagaatt aggaatgacc 240

atggcagaga gtttgaaaac agcaagttta ctgaattctg cacatctgaa ggcactactc 300
atgagttctc tgcagccatt acaccacaac aaaatggcat agttganagg aaaaatagga 360
cttttcanga

<210> 19647
<211> 400
<212> DNA
<213> Glycine max
<400> 19647

tgttaggcctt ggatcttctt catcaatgga gtcttttget tcttgaagat caatggcagc 60
agaatggaga aggaggaaag ctgattggag acgccacttc aaggagaaga tgagtcaaga 120
acaagctcac aaccatagga agccatggat aagagcttta aggtagaaga tgagtggagg 180
cagaaggaga gaaggaacac aaaattttat gtcccaaaty aggtcagaac tttgaagtyt 240
aatteccaaa tgatcaaagt tgaaaaacta cacacataag aactctatct atagcttaag 300
tgccacacaa aattggaggg aaatttgaat tctattcaaa tttcacttga atttgaattt 360
gaatttgtgg agccaaattt ggagccaaaa tttcactaat tatga 405

<210> 19643
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19643

tattattggt ttgagtttaa aacctgaaac tcatgagagg tagtaagaga agaggaagca 60
tgcatgata atgatgatgg gcttaccgt gggccttggg ctcatcttgg gccccaccaa 120
cggagtacct cgggtaacac ttcccagaa acatgtcacc gtaattcgtt gtgcgcgaat 180
cgctcttcag ggggagata gcttcgcca cgcagtcctg gcactccctg tagctcaagt 240
cgcgggtgca ctgggccacg cgtgtaccc caccggaccc accgacgga aagttccac 300
cggcgggggg gactccggg agcaggggt cgcggctccc catggcgttg gnttctaac 360
cgaacacgg cccgcacttc ttcagcaaa ccgtc 395

<210> 19649
 <211> 416
 <212> DNA
 <213> Glycine max

cttgcattta cttcattttt ctttcatttt ctttcatttt ctttcatttt ctttcatttt 120
 atggaaatg ctttcatttt ctttcatttt ctttcatttt ctttcatttt ctttcatttt 180
 ttgtatccct ctttcatttt ctttcatttt ctttcatttt ctttcatttt ctttcatttt 240
 aattttccag ctttcatttt ctttcatttt ctttcatttt ctttcatttt ctttcatttt 300
 gtaactcttg ttttcatttt atcagaataa catgtgcaac acaactacat aattacagta 360
 aataacattg ttttcatttt taatattctg agtgcctgac acaactacat aagtgc 416

<210> 19650
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 19650
 tgaatcggac ctttcatttt aaagtattga ctttcatttt ttttcatttt ctttcatttt 60
 tcaatgtcga gtttcatttt atattatgag ctttcatttt acatccgtgt gaaaagtatt 120
 gaccatttga attttcatttt agtttcatttt gtttcatttt gagcctctcg acatattatg 180
 cgtccgaatc ggacatccgt gtgaaaagtt atgaacattt gaatttcatttt agagcttccg 240
 atgttgaatt ttgagcctct ctttcatttt ttgagcctga ttgagcctga gtgtgaaaag 300
 ttatgacctt ttgagcctct ctttcatttt ctttcatttt ttttcatttt ctttcatttt 360
 ta 362

<210> 19651
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19651
 ttgagcctat ttgagcctat ttgagcctat ttgagcctat ttgagcctat ttgagcctat 60

catccacata cctagatctc cttctaaaatt ccacccgaatt tatatatggt taaatgcattg	130
gaagcaagga tccaagacta gctgtgggac ttttattggt cctgatgggt gttttttgaa	140
attctatctt cttctatctt tctctccccc accctctccc catctcaaaa atgcattttt	210
ctctctctct cttctctctt cttctctctt cttctctctt cttctctctt cttctctctt	270
ctctctctct cttctctctt cttctctctt cttctctctt cttctctctt cttctctctt	330
ctctctctct cttctctctt cttctctctt cttctctctt cttctctctt cttctctctt	390
ctctctctct cttctctctt cttctctctt cttctctctt cttctctctt cttctctctt	450

ttttggagggc ttgtatgtca tgttgtacat aagcatagggc agaacgaaat ccnagggat 360
 gaaaccaatg gcaccaacca caccgttgat gtctccaaaa aatggcagca tagctgccac 420
 :

<213> Glycine max

<223> unsure at all n locations
 <400> 19654

tattctgagc atgattctct ctaatttcca tgcctaaaaat ctcttttagtt gctcccatat 60
 ctctcatctc aaattcaacta ttaaaaagtg acttcagttt ccgaatttca aacttgtgtc 120
 aagatactat ggycatgtcg tccacataga gaagtagata aatgtatgca ccctccttca 180
 ccttactatg ataaacacat gaatcatatg gaattttatt gtaccatga gagataatta 240
 actaatcgaa tctcttgtac cattgtcttg gagattgctt caatccataa agagaccttt 300
 acaacctaca aataaaatct tcttttctt gcacttcaaa accttttggt tgtttcataa 360
 aaattttctt cctccactat tccatggaga aaangttgtt tcacatcaa 409

<210> 19655
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19655

tgtcccaagg atccatctcc tttaacccca acatagatag gcttgtggat ggagtttttg 60
 aatgcagttt gataccataa ggaatcataa cctccaatta aacttagaaa aatgattttt 120
 caaagtacat gongagaagt tcttaggttt tatgttgaca aagaggggaa ttgagggtaa 180
 cccaaataaa tgraaggcca tcatgaaaat gagaattcca agaacygtca aagaagtga 240
 caactcatag ggaagatcat gtccctgtct tggttcttat caaaatcgac agagaaggaa 300
 ctccctctgc ttaagtgaat tggaaagaac aagcacttcc aatgggtgct agattgtgag 360
 aatgccttca aacaattcaa ggaattctc acaacactac ccattttaac aaatcccaaa 420
 tcgaaagggt ctatactg 439

<210> 19656
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19657

tttaagaggt tggtaacttt ttctttcacc acatctagaa taa tggattt tttttttt 60
 ttatggtaact taattggg t agctgtaacc tctaaagta tctatggat gaaggtagat 120
 gggttaatac cagggaatgtc tgctaaagtc catccaatgg ccttcttgtg cttcttgagc 180
 aacggcaaca acttctctctc ttgtcaaca tcaaggggaag cagagatgat caatggaaat 240
 ttgatgaat cctacccgcg aagggcattg gatagaagac tccaagtaga ttggggccaga 300
 gatccaaggg aaggccctag ggtctcatg agccttaagg tagattntga gcccatgggc 360
 taagtatgag ccgcttctc tttgtaatta ttagaat 397

<210> 19657
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19657

agcttatagt cactacttgt taagaaccat aagccagagt cgattgttcc ttgataaag 60
 tgaagaattt gttttgcagc cttgaaatga gtagtgggta gagtctcgat gtattggctg 120
 atgagtactc cagtagcata tataatgttt ggtcttgtgt gtcdaatata ataaactacc 180
 caccaaaactc ttgaaatcta tagcatccag tttctctgtc tcttcgaact ttgataactt 240
 cattntgcac tccatcagtg ttccaattgg cttgcactca tccatcttga atntattaag 300
 catcttctttt gcgtagcttt gcagtgaat gaagatttca tcttctttct gcntacctc 360
 aatggcaaga tagtatgaca tttttccgat atcggtcacc tcanacttct tcatcatttc 420
 tttcttanac tctgataatt gt 442

<210> 19658
 <211> 308
 <212> DNA
 <213> Glycine max

<400> 19653

ttggagcctc gaaatgatta gaggctagag tctctatgta taggctgatg agtactccag 60

caactatatt caactatatt caactatatt caactatatt caactatatt caactatatt 120

caactatatt caactatatt caactatatt caactatatt caactatatt caactatatt 180

caactatatt caactatatt caactatatt caactatatt caactatatt caactatatt 240

caactatatt caactatatt caactatatt caactatatt caactatatt caactatatt 300

caactatatt caactatatt caactatatt caactatatt caactatatt caactatatt 360

<210> 19659

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19659

agcttcttat ccaaggctca tcttggtggt gaagctcctt cttccctggc ttattcccta 60

gtggatggcg cctcctctca cctctcttcc ttgtctttc actgcatttc catggtggaa 120

aatcaccatt aaaggacctc attgaagctc anagatccaa cctccataga agccccacaa 180

tcaagcttcc atcagttgta gacctctaag accaagaaaa gacagcttcc acatgtcctt 240

ttgggtgttt tgcctattgc cgaatgcat tgggttatg taatgctcct gctaggttcc 300

aaagatgtat gatggctatc ttgtctgaca tggtagagaa gtgcattgaa gtctttatgg 360

atgaattttc agtctttggc gcattctt 387

<210> 19660

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19660

tgtagcaaat gcaaacggca ataacgtint actcggatgt tggattgagt cagctaatac 60

atcgaaacgc tcgaaatgca aaacagaadc tctgtgcaaa ttcaaacgac aatacatttt 120

aactcggatg tccgattcag tccgtaata tatcaagaca ctcgaaattg agaataaaaag 180

ctctgaacaa atcaaaacga caataacatt ttactcggat gtccgattca gtccagtaat 240

atattatagac actcgaaatt gagaatagaa gagctgagca aattcaaacg acaataactt 300
 tttactcgga tgtccgatgg agtcccgagc gttccgatat attatgggac taaattggac 360
 attatgggac taaattggac attatgggac taaattggac 390

<223> unsure at all n locations
 <400> 19661

agcttataact cggatgtccg attcangcgc ataatatato gagacacttg atattgaata 60
 acagaagctc cagagaaatt cgaatggtca taacttttca cagggatgto cgattcgggc 120
 gcataatatt cagagacgct cgaattgaa caacggaagc tctcagagaa ttctaattgt 180
 cataactttt cactcggatg accggatcaa ggcataata tatcagagag ctcgaaattg 240
 aacaacggaa gcttcgcaga aattcaaatg gtcataaact ttaactcaga ggcccgatcc 300
 atgggcataa tatatcgaga cgttcgaat tgaacatcgg aagctctcta gaaattcaaa 360
 tggtcataaa ctctcacttg gaggtccgat tc 392

<210> 19662
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19662

agcttatggt gcaaacattt aaaatagacc tcttcagcag caaaacaaac aacaacagaa 60
 taattatgac ctttcaagca acagatacaa tctaggttgg aggaatcctc caaatctgag 120
 atggacaagt cctccacaac aacaacaacc tgtccctcct tttccagaat gttgctggto 180
 caagcaagcc atatgttctt cctccaatgc agtaacaaca gcagcagtca caacaaagac 240
 aacaaggaac tgaggtcctt cctcaacott ccttagaaga gttagttagg caaatgacca 300
 tccagaatat gcaatttcag caagagacaa gagctcccat tccaggtctg acaaatcaga 360
 tgggtcagat gctactcag tgaacaaag ctcagtccta aaattctgac aaattgcttt 420
 caaaaact 488

<210> 19663
 <211> 358
 <212> DNA
 <213> Glycine max

atggttctat gttggtctat tttatgataa tttgttttat tttgttttat tttgttttat
 agttagggg ttggaattac tttatgga ttggaaggat catgagata taagtatcat 120
 cacatattca catatatctc atttatgatt acttattatg cacatacctg tctgtccatc 180
 ctagaacac tctgacagat cacccaagca ggttgaatat tctgggggag gactaggata 240
 ctggccaggg caatatgata cccaactact ctcttctgca ttggaagctg tggatgcata 300
 tatattgata ttttaggtaa taagacctgc tatgagtact ccacatacac atgctctc 358

<210> 19664
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19664

tcaacattca attntgagcg tctcgcaata ttacgggact caatcagaca tccgagtaaa 60
 aagatattgt cgcttggtt ggctcataga atcaacattc aatatcgagc gtctcaatat 120
 attacgggac tcattcagac atccgagtaa aaagttattg tctgttgaat tagctcagag 180
 ctccaacaat caatttcgag cgtctagata tatgacgaga cttagtcaga catccgagta 240
 aaaagttatt gtcggctgaa ttggctcaga gtttcaacat tcaatttcga gcgtctcgat 300
 atatgacggg actcaatcat acatccgaga tgaaagttat tctcgtttga atttgctcag 360
 aggttcaaca ttcaatttcg agcgtctcga tatatgacaa gactcaatc 409

<210> 19665
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19665

ttatgcgccc gaatcagaca tccgggtgag aagtcac

397

<210> 19668

<211> 430

<212> DNA

<213> Glycine max

<400> 19668

ttatgacata caatgacgac tctctgacat gacgtgaggt gcttgcacaa attcttctc
aggttcccta aagaagctag agtttaacta caatgacgac tctaatagct aggttccact 120
cttgagatg agaagctaga acttagctac acaccccta tagtagctaa gctcaccccc 180
atgacaaaact acatgagaat acgaaataaa tccctactac gaagactact agaatgctt 240
cgaatacaaa ggcgtgaaac ctatactact agagtggcca caatacattg ccagagcgaa 300
gtagtaacct attctaatat ttacaaagat aagcgggctc atacttagcc catgggctct 360
tcatctagcc taatgctcat gagaacaata gggcggttcc ttgtatctct ggcacaatct 420
acttgagctc 430

<210> 19669

<211> 403

<212> DNA

<213> Glycine max

<400> 19669

tataggatac taaggtaatt tgagcatcca ttctgggtgct accaagatgt atcatgattt 60
aaagacgatg ttttgggtggc ccaacataaa gagagagggtt attgagtttg tgtatgcatg 120
ctagttctgt cagaaggcta agatagaaca ttagagacct tcaaggaagt tacaaccctt 180
agagataccc tagtggaagg gggacagtat ttccatggat tttgtggtag gactacctag 240
gacccctaga ggcttagatt ctatctgggt tattctcgat agattgacta agtctgctca 300
cttcattccc attaatatca gattttcctt ggaaaagtgt actaccttgt atataagtga 360
gggtttcaag ttacatggtg tgccatctag catagtatct gat 403

<210> 19670

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 19670

gtagagccaat aaaaacgaca ataagttntt actgggatgt ctgattgagt ccagtcatat 60
atgagagcgc tctaaattta atattgaatc cctaaactaa ttcaaacctc aattatattt 120
tctatctctc tctatctctc tctatctctc tctatctctc tctatctctc tctatctctc 180
tctatctctc tctatctctc tctatctctc tctatctctc tctatctctc tctatctctc 240
tctatctctc tctatctctc tctatctctc tctatctctc tctatctctc tctatctctc 300
tctatctctc tctatctctc tctatctctc tctatctctc tctatctctc tctatctctc 360
atctctaagc caattcctac gacaatatct tttactcgg atgtttgaat gactcc 416

<110> 19671
<111> 414
<112> DNA
<113> Glycine max

<400> 19671

agcttcaaca ttcaatttcg agcgtctcga tatatgacgg gactcaatca gacatccgag 60
taaaaagtta ttgtcgtttg aatttgctca gagcatcaac attcaatttc gagcgtctcg 120
atatattaag ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaatttgctt 180
agaggggtcaa cattcaattt cgagcgtctc gatatattac gggactcaat cagacatccg 240
agtaaaaaga tattgtcgtt tgaattggct gagagcttca acattcaatt tcgagcgtct 300
cgatatatga cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattggc 360
tgagagcttc aacattcaat ttcgagcgtc tcgatatatt aagggactca atca 414

<110> 19672
<111> 401
<112> DNA
<113> Glycine max

<400> 19672

tgacagtgtt tgatgcacaa gggaacaatt tcaatttagt agtgggtcct aattggattc 60
ctaattttta actaacctat ttggatgtga catcatggga gataggtccc aatttccgt 120
cgtggattca gtcacaaaac aaacttcaat attttcaact gttcaacacg gggattttag 180
attttattcc caattggctc ttggaagcac attctcaggt ttgtattta aactctcttc 240

ataatcatat ccgtgggtgag ctgttgacta caataaaaaa tccaatatct atccaaactg 300
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 gcttadactt tcaacaaat tcaatctctg gatccatgca 420

<210> Glycine max

<223> unsure at all n locations
 <400> 19673

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 aatcgatttg aaatttgctc atgaccatct ccataatgct ccatcactag cagctgcatt 180
 aataagaatg cactttcatg actgttttgt aagggatgct gctccaatct ttaagcttct 240
 ttcattttta ctttaacaagt acaatgttat tgtttagatta aggttaagga gctaactaag 300
 atgaagcatt tcagggatgt gatgcacag ccccttttgaa ctcaacaacc aatcaggttg 360
 agaagaatgc tcttccaaat cttacagtaa gaggctttga cttcattggc attataa 417

<210> 19674
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19674

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 gctgngggca agtaaatctt cttcccatca gaccttgaat gcaactgtga tcttatccc 180
 atatcagcta gatcttgacg ggtattcaag tcatectctg tcttgccttg aatgttaagg 240
 agcgtcccaa tcaactgtc acaaacattn ttctccacat gcataacatc aatacaatgt 300
 ctaacatcaa gatcacacca gtacggaaga tcaagaaaaa tggacctctt ctcccatatg 360
 caactctgac tcttatctct ctcttgggtc tctccanata cagtattcac ctcttcaacc 420
 cgtgatata cct 483

<210> 19675
 <211> 411
 <212> DNA
 <213> Glycine max

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 atgggcaagt actccaaaaa aacaacaacc tgtccctcct tccagaatg ctactggtec 180
 aagcaagcca tatgttccca ctgcaatgca acaacagcag cagcagtcac aacaaagaca 240
 acaattaact gaggtcctct ctcaaccttc cttagaagag ttagtgagge aaatgaccat 300
 ccagaatatg caatttcagc aagagacaaa agactccatt cagagtctaa caaatcagat 360
 ggggcagatg gttactcagt tgaaccaagc tcagtcacca aattctgaca a 411

<210> 19676
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19676

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 aaaaggctca ccaatacttt ctgatagttt gccaaactat catgcttgtc aatttggtaa 180
 acaaaacaaa aaatcattcc ccaatcctc ttggagagcc tctcataagt tctagctaat 240
 tcacactgat gtgataggac ctcaaagaac accatcacta caaggttagtc tctactttat 300
 tcatttcata gatgactnta caagaatgtg ctggattntt tttcttgaaa ttcaagcatg 360
 aagtggctga agtatttgtg aagttcaaga taatgggtga aactcacagt ggttgcnaga 420
 ttcaatgact 480

<210> 19677
 <211> 425
 <212> DNA
 <213> Glycine max

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ctgctgcttc tttgctgctt cttgctgctt cttgctgctt cttgctgctt cttgctgctt	360
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actaa	425

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<400>          19678
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ccttccatg cagcaaacctg gagcaattga gcagcctgaa acttatgtct caaatattta 180
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cagcaacaga tacaacccctg gatggaggaa tcaacctagc cttagatggc ccagccctca 300
gcaacaacaa cagcagcctg ctcttctctt ccaaaatgct gctggcccaa gcagaccata 360
cattctctca ccaatccaac aacagcaaca acccagaaaa cagccaaca 400

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5223+ unsure at all n locations
 5400+ 19679
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agaaatgtga ttggacagat tatatatata tatatatagg agagagatca aattacatta 180

actttaactt tgattaagta ttataccgtt caataatttt taattggata atattttctt 240

gaaactata atgggatga aattttatct cacttagatc atatataga aattttatat 300

<310> 19680

<311> 414

<312> DNA

<313> Glycine max

<400> 19680

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aggtatgac agtgacaatg cactgttgcc ttctgaaaaa aaaggctacc aactaagtta 180

ccaaacatgg cttaaattaca aggatattca acactcccc tcaagctgga gcatataaat 240

catatgcacc aagcttggtta catatagtct gaatcttggg tctctttaag gacttagtca 300

aaatatccgc tggctgatca ttagaaccaa tgaactcagt gacaatctcc ttggacagaa 360

gcttctctcg aatgaaatga caatcaatct ctatatgctt ggctctctca tgga 414

<210> 19681

<211> 417

<212> DNA

<213> Glycine max

<400> 19681

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atgaggatag ttgcagtat tacaatgaaa tgggtgcagt tttttacatg ggtctgatgc 180

atgcagtcca gaagtaaggt ttttgaatcc atgcattcat tacaacagat aatgaacaaa 240

agcttaccga atttcttcca atcaccacaa aagttgaata acttggatga taaacacagg 300

aatgcaattg gtctccagtg gacgtgaact catgaatcca ttctctctct caattcctac 360

tccaaacett caccagattt ggactcacag atgccaaggc atcaccattc ccattccc 417

<210> 19682

<211> 400

<212> DNA

<213> Glycine max

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 cgtggctgtg aagagactca aagaactctaa cccctggcgag agaaatgagt ttgaacagta 180
 catggatggt gttaggaagc tcaagcacc ccaacttggt agactcagag cttattatta 240
 cgtctaaagaa gacaagcttc ttgtctatga ttatctgccc aatggaagct tgcctgctct 300
 tcttcctggt tagttaaact caaactcgag cgagctctga tgggacatga tcttctatga 360
 taaactttta ttaatttgat aagcttgatt gtttatatat 400

<210> 19683

<211> 418

<212> DNA

<213> Glycine max

<400> 19683

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 atttacctgc gtcaacttta tcagagagaa atcagacacc tttgaagtat tcaagagtt 180
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 cagacagtat gaatacagca agcatactgt attatgcaca tccgacggcc tttctcatga 300
 catctctgca gcctacacac cacaacacaa tggcatagtt gaaaggaaaa acaagacttt 360
 tgcagaagct gctacggtca tgettcctgc caaagaactt cctataatc tctgggct 418

<210> 19684

<211> 420

<212> DNA

<213> Glycine max

<213> unsure at all n locations

<400> 19684

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cagctttctt ttgatggcct cagctattct cttaggattt gtaactaaca nactatctac 300
cagctttctt ttgatggcct cagctattct cttaggattt gtaactaaca nactatctac 360
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<410> 19685

<411> 399

<412> DNA

<413> Glycine max

<400> 19685

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gttccttttga ttgtctctga tagggtttct aagcattaga gagaaggaga agagattaaa 240
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gttccttttga ttgtctctga tagggtttct aagcattaga gagaaggaga agagattaaa 360
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<410> 19686

<411> 399

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 19686

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cattttccca agtatgttng gctcgtatcc ttgaaaattt aatcttatct ttcaataatt 180
ttcccaattt ttaaaaaatt ggtcgtatcc caattaaaatt ccccaattcaa aactctctac 240

tttgacaatg gagggagaatt tattaaactt caaccatttt tacaaaaatca tggcatctct 300
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<235> unsure at all n locations
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 gggacaagtt ctgaataaaa agtcaagaga tgcactctt ccaatgggtt tctcaagatt 240
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 caagaccttg actttgcatt caaataactt tttacaactt ttagaatctc ttgaacaact 360
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<210> 19688
 <211> 445
 <212> DNA
 <213> Glycine max

<213> unsure at all n locations
 <400> 19688

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 acatacatca aattgataag atattcttta ttgataggaa taaaaaaata tattatttaa 180
 aatttataat aactcaccta tcaatttata atatttgcac atgtacatta attatagacc 240
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 ttccatacct gaaaaataga tcattcttaa attactacct acgaattcat ttttggcaa 360
 atacctactt gaaaaaaaaa tttaactctt cggntaagtc atgacg'gcac agaataccac 420
 atcaatacgt ccaatcactg acaact 445

<210> 19689
 <211> 189
 <212> DNA
 <213> Glycine max

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 aaggttcgat 189

<210> 19690
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 tccctgtaagc tttgggttaag gattgattgt attgagctat agcttgactc tcgcctgtaa 120
 atgatgcaac ctgcattgga ggaatgtgta tcttttatat tctactgtct acaaacatgt 180
 aaaaqaacaa gattgacaag ttccattatg aagattggca tacttgctga attgaatcaa 240
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<210> 19691
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19691
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ggggtatgtt cgggctagtt actcaaggga ctgaaattc aagctccaaa aactaaccga 180
 aggaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
 tttcaagaaa catcaagagg taactatgg tggatgctt aatggttga ctatgctat 300

<21> 19692
 <211> 336
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 gagaaatttg aatggtcata acatttcact cggatgttcg atccggggac ataatttata 180
 gagacgctcg aaattgaaca accgaagctc tcgacaaatt agaatggctg taacttttca 240
 cgggaatgtt cgattcgggg acataactca tctagacgct cgaaattgaa caacggaagc 300
 tctcgagaaa ttcgaaatggt cataaagttt cacacggatg gtcgatttcg ggacataata 360
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<210> 19693
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 cgggtatgtt cgggctagtt ctcaaggga ctgaaattca agctccaaaa actaabcga 180
 ggcaacaagg ggggttgagg gtatttcaag gaaatggatg tgcctatgat tcaagcaaat 240
 attgaagatg atgatgatgt aactatggtt cuatttttta atgggtcgac taatgatata 300
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375

<210> 19694

<211> 398

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aaaaagtcaa aaaccttttg aagagttaca tattttttat ttattcagag acaaacactg 240
gtaatcgatt accatattag tgtaatcgat tacacagagc ttttgtgtga aaagatgtga 300
ctttccatat ttgaatttga aattcaacgt tcaaaggcac tggtaatcga ttaccaaaac 360
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<210> 19695

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19695

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<210> 19696

<211> 384

<212> DNA
 <213> Glycine max

<223> unsure at all n locations
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19696 19697 19698 19699 19700 19701 19702 19703 19704 19705 19706 19707 19708 19709 19710 19711 19712 19713 19714 19715 19716 19717 19718 19719 19720 19721 19722 19723 19724 19725 19726 19727 19728 19729 19730 19731 19732 19733 19734 19735 19736 19737 19738 19739 19740 19741 19742 19743 19744 19745 19746 19747 19748 19749 19750 19751 19752 19753 19754 19755 19756 19757 19758 19759 19760 19761 19762 19763 19764 19765 19766 19767 19768 19769 19770 19771 19772 19773 19774 19775 19776 19777 19778 19779 19780 19781 19782 19783 19784 19785 19786 19787 19788 19789 19790 19791 19792 19793 19794 19795 19796 19797 19798 19799 19800 19801 19802 19803 19804 19805 19806 19807 19808 19809 19810 19811 19812 19813 19814 19815 19816 19817 19818 19819 19820 19821 19822 19823 19824 19825 19826 19827 19828 19829 19830 19831 19832 19833 19834 19835 19836 19837 19838 19839 19840 19841 19842 19843 19844 19845 19846 19847 19848 19849 19850 19851 19852 19853 19854 19855 19856 19857 19858 19859 19860 19861 19862 19863 19864 19865 19866 19867 19868 19869 19870 19871 19872 19873 19874 19875 19876 19877 19878 19879 19880 19881 19882 19883 19884 19885 19886 19887 19888 19889 19890 19891 19892 19893 19894 19895 19896 19897 19898 19899 19900 19901 19902 19903 19904 19905 19906 19907 19908 19909 19910 19911 19912 19913 19914 19915 19916 19917 19918 19919 19920 19921 19922 19923 19924 19925 19926 19927 19928 19929 19930 19931 19932 19933 19934 19935 19936 19937 19938 19939 19940 19941 19942 19943 19944 19945 19946 19947 19948 19949 19950 19951 19952 19953 19954 19955 19956 19957 19958 19959 19960 19961 19962 19963 19964 19965 19966 19967 19968 19969 19970 19971 19972 19973 19974 19975 19976 19977 19978 19979 19980 19981 19982 19983 19984 19985 19986 19987 19988 19989 19990 19991 19992 19993 19994 19995 19996 19997 19998 19999 20000

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<210> 19697
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 <212> DNA
 <213> Glycine max

<400> 19697

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<210> 19698
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 19698

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gtgttttgag gagcttgaaa aaatcattga atgcaataaa ttttaaggcc aagtacttgt 180
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<212> 19699
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
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<210> 19700
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
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<210> 19701
 <211> 1
 <212> 197
 <213> Glycine max

<223> unsure at all n locations
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cctaagcagc caagttaggc acaacagAAC aattatgac ttgcagcga caagtacaat 60
 cccatgtgga ggaatcattc caaccttaga tggatgaaac ctccacaaca gctttctgaa 120
 taacaacaac atccataact gcataatggt gctgggcgaa gcagaccata cgtttctgaa 180
 ccaaatcaac aacagcagca acccagaaa ctacgaacag tccaggtctc tacacaactt 240
 tctcttagag aactgtgag gcaaatgatt atgcataaca tggcagttca acaagacacc 300
 agagcctnca ttcagagctt aactaatcag atgggacaat tggctacaca attagatcaa 360
 caacagtgcg agaattctga c 381

<210> 19702
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19702

agctntntat ttccagtaga tgaagatgaa tctgtggcga cctcatggac tctcttaagg 60
 acaatagcat cattctctgc actgaattgt tgggagttag aagccatctt ctccatcaaa 120
 tctctggcct cagcaggggt catatcaact agggctccac cactggcagc atcaatcata 180
 ctctcttcca tgttgctaag tccctcatag aaatattgaa gaaaaagttg ctcaaaaatc 240
 tggtygtgag gacagcttgc acacgatttc ttgaatcttt cccagtaact atacaagctc 300
 tctccactaa gtgtctgat gctaaaaatg tctttcttga tggcaatggc cctagatata 360
 cgaaagaatt tctccaagaa cactctctta aggtcatccc agctgaaaat 410

<210> 19703
 <211> 420
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19703

ggtctctctc gactctctc ccaatgctaa ccaacacacg ttttttacta aatttgctaag 60

ggtctctctc gactctctc ccaatgctaa ccaacacacg ttttttacta aatttgctaag 60

aaacataaaa tgacatttct cccagttaag caccaagttg gactcttcac atctctgaa 360

caaccttttc aaattcgata gatagcaatc aaaagaagag ccanagatag agaaatcacc 360

cataagaatt tcgatacact tctccaccat atcgaanaag atngccatca tgcacctctg 420

<210> 19704

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19704

ntgaagttag tgtattttat tattagtatt attatacata taattaaata cttttatggg 60

tatgattttc tattgataat tcatgtctat gattttgtag tgttattatg acatgatctc 120

gaaagttatt gatatgttga aattagaaaa tatttttatt taatttgata catgtgtata 180

tgattcatga gatatgataa attattatat tnggatcatg aaattgtgat tgagaatgtg 240

tgtgtaagtg atgaattgtg agatatatgt gtattgagat gtgagctatg aactctacaa 300

tcacacaatt gtaagagcct ttaagagcga tgagttaatg cgcgataagn nttgtatgag 360

ctctactgtg ggaacccgat gaagttaatc aat 393

<210> 19705

<211> 232

<212> DNA

<213> Glycine max

<400> 19705

tcaacattca atgtcaagcg tctcgatata t'atgggact caatcagaca tccgagtaaa 60

aagttattgt cgtttgaatt ggc'cguage tcaacattc aatttcgagg g'ctcgatat 120

attaaggagac tcaatccgac atccgagaaa aaaattattg tcgtttgaat tggctcagag 180
 gctcaacatt caattttgag cgtctcgata tgttacggga ctcaatcaga ca 232

<210> 19706

tatctgttaa ctaccaagaa ccctctggta atcgattaca gcctgttgta atcgattaca 60
 aggtctgttt ctatgggtatt ttgcatttaa aactaactat ttttcaacta caaaaactac 120
 acattgagta taacaatcat taacaacaat caacaatcaa aatatacaat taaaacaagc 180
 atcaaaaactc tcaaacacat tcatcaagca caatcaaaaat tgcaaaaagac aattatcaac 240
 aacaatcaac actcatcata actatcaaaa cataatcatt agagacaato aaaactcaaa 300
 caaagacaat catlaatcca taatcaacaa taatcatcaa aagcaaaactc aattatcaag 360
 aacaatagaa canattaaca atcatatgat aagagataat aatcaaccaa gttaactatg 420
 tatctaagtc a 431

<210> 19707

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19707

tgcctcagga ttgaaaagtg agacatttcc tcaacatggt ttcaaaactca aaaaagccct 60
 atatggactt aagcaagctc cttagagcttg gtatgaaaag ctaagttcat ttctcttgaa 120
 aatggctttg agcgaggaaa ggttgacaca acactcattc acaaaaaacta tgattctcag 180
 ttttatttag tgcgaagtata tgtggatgat atctcatttt tagtgcactc aatgaaatto 240
 ttgttgaaga tttttctaag tagatgcaga ctgaattcga aatgagcatg atgggagago 300
 tgaattcttt tcttggatta caaataaaaac aaacacccan aggcattctac attcatcaga 360
 ccaagtatgt gaaagaatta ctgaanaatt caacatgggt gtgcgaatat agataaag 418

<210> 19708

<211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19709

tttgaatgaa tttgaatgaa tttgaatgaa tttgaatgaa tttgaatgaa 15
 atgaccaag agcaaggga aggatccact tgaaggactt ggaggaccta tgacaaggga 240
 tagagcaagg aaagccaatg aagctcttca acaagtgtgt tccatactat ttgaatacaa 300
 gccaagatt caaggagaaa agtccaaggg tttgagttgt atcatggccc aaatggatga 360
 gaactaaatg acaccacttt gtctcaatt tt 392

<210> 19709
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19709

agcttganat tgaacaacgg aagctcttga gaaaatcgag tggtcataaa ttttcacaca 60
 gatgtccgat tgggggaaat aatataatga gacgcacgaa attgaacaac ggaagctctc 120
 gagaaatttg aatggtcata acatttcact cggatgttcg attcggggac ataactctac 180
 gagacgtctg aaattgaaca accgaagctc tgcacaaatt agaatggctg taacttttca 240
 cgggaatggt cgttcggggg acataactca tctagacgtc cgaaatngaa caacnggagc 300
 tctcgagaaa ttggaatggt cataagtttt cacacgga 338

<210> 19710
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19710

agcttgaatg ataacttgat gctttcttca acctaccaac tgaagttgac atgaatcaga 60
 aatctacacg ttttcaaga gcttggtgta taagttcttc tgcagatcac cctacagatc 120

gtgttccaga ggcttccatgt gttactttgt caacatattg gtcattttca tggactaca 300
 gttttttctt ttaagtaatg ttttgggcaa tttcacacta agttgggatt aagttccaata 360
 tcaataccat acctact 377

<210> 19713
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19713

atggagcgggt ttaaagggtt taatgctaaa gtagagaaac aatgtggaaa ataaattaag 60
 attgtgagat tagatagaga ggagagtatt atggtaagta cacagagagt ggacaagcac 120
 atgggtccatt tgcaaaatct ctttaagaac atgggattgt tgcccagtac actatgtcta 180
 gttctccaaa ttagaataat gtggcagaaa gaagaaattg aactttaatg gacatggtaa 240
 gaagtatgag gagtaacaca aaacttcttc agttcttgtg gattgaaaca cttaagatga 300
 ttgtgtatat atttaataga gttccaacca aggggtgtctc aaagacacct tttgagttat 360
 tcaaaa 365

<210> 19714
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19714

atcttgggtga gtgggtcttg ggcttctga tcatgtgtgg gctggctctg tattttgagc 60
 aatcaatgta aaggtgctta gtttctcat gaaacacgag attggcctgt atgtggagaa 120
 tgctttgatt atcacaatat ataacaactg gatgggagca attgatatta aatcattgag 180
 aagatagggtg agccattgaa actcacactg ggttgaagta agagctcagt atttagcttc 240
 taatgataaa tgtgaaacaa tctctatctt cattgatttc tatganacca aggatctgct 300
 aatgatgaag caattctctg gatggagttg gacag 335

<210> 19715
 <211> 426
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19715

gcttttataat gttttttttccc agcagcatttg aaggaattcaa tgaatttcaac attttttttc 60
gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt
gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt 120
gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt 180
gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt 240
gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt 300
gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt 360
gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt 420
gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt 486

<210> 19716

<211> 312

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19716

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gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt 120
gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt 180
gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt 240
gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt 300
gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt 360
gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt 426

<210> 19717

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19717

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gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt gctttttttt 120

atcctttctaa taacaatagt aaacaagaaa agtggtcaatg gatcaccttg tcttaaaaatt 180
 tcttgagcga aaaattccta agtatttcag caacatcaaa tggtaactga tgtcaaadat 240
 gttttatcc atttaattca cttctcatca aaacccaacc tcttcataa aaacaagaaa 300
 tctttatcc atttaattca cttctcatca aaacccaacc tcttcataa aaacaagaaa 360
 tctttatcc atttaattca cttctcatca aaacccaacc tcttcataa aaacaagaaa 420
 tctttatcc atttaattca cttctcatca aaacccaacc tcttcataa aaacaagaaa 480

<210> 19718
 <211> 373
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19718

agcttggaga gcaagtcttc cttagtattg tttcccttg gtatgtggta ctttttgagc 60
 aattgaaatt atcaacaagg gtttttatga catgatagtt tatgaggaga accacttctt 120
 tggctcgata tatgttttca acccatcctt ggacaagttt cgagtcttta tagcacctga 180
 gtttcccttg cogaacttca ttggccagtt ttagacctgc tatgagtgc tttatatttg 240
 tttcattggt tgatgccttg aagtcaaatt tgagggcatg ctccanagtg acattgttgg 300
 gtccttcaag cataatgcc gccctatttc ctttcacatt ggatgcacca tcaacatata 360
 agttccacca gtt 373

<210> 19719
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19719

agcttgcctc ttgtgcctct cctgagatat tgggtgggc tttccaatga taacatcttc 60
 accagatact cgtgtgcctt atttcataat aattaattag ttcttgtgaa attccttgag 120
 gatagatcaa aaaggcataa attcagatat gcttaactgg ggggcaagac catcatcctc 180
 cagcttatca taagaacct gtctcattcc ctgaaaaatg aaacttggta agaaaccacc 240
 aacaagaacc caatactctt ttccaaataa aaattgttaa gcaagaatag ttatttggta 300

ccaaacccaa atttctcacc atgggtgttag ctctatcagg acggccacaa ttttttttga 360
 ccagggttcc catctttcttc ttttcctctc tataanaagt taagaatata gcataatata 420
 a 480

<209> 19720
 Glycine max

<400> 19720

agcttggtatt tttttcttcc ttagtattgc ttttccttgg tatgtgggtac attttgagca 60
 attgagatta tcaacccaagg tttttatgac atgatacttt atgaggagaa ccacttcctt 120
 ggttcgatat atgttttcaa cccatccttg gacaagtttc gagtctttat agcaactgag 180
 tttacttgcg cgaacttcac ttgcagttt tagaactgcg atgagtgcct tatattttgt 240
 ttcattgttt gatgccttga agtcaaatc gatggcatgc tccaaagtga cattgggtggg 300
 tcttcaagc ataatgcctg cctcattttc tttcacattg gatgcaacat caacata 360

<210> 19721
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19721

tatgtacaaa acatctacaa cagacctctt taacctcagc agctaaatca gccacaacag 60
 aataattatg acctctccag caacagggtac aatcccgagt ggagaatcat cccaacctta 120
 gatggtcgaa tctttcacia caacagcagc aacaacaaca accttatttt caaaatgctg 180
 ctggcccaag cagaaccatac gttctctcac caatccagca acaacaacag caacagcccc 240
 aaaaacagca aacagttgag gctctctcgc aacctttctt agaagaactt gtgaggcaaa 300
 tgaactatga aaacatgcag ttccgacaag agaccagagc ttccattcag agcttaacta 360
 atcagatggg acaatnggct acacagttaa atcaacaana gtcccagaat tctgacagat 420
 taactttctc acctatct 480

<210> 19722

<211> 418
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <410> 19722

tgggtttaca attgattggt aatgaaaca aaatgaaacac atattttttt aaggaatttc 15
 tgggtttcac atttcttgca aaatctgcat ctacatagcc tgtgactact gcttcgtgtg 240
 tgggtttctt gtaaccttaaa ccagctttca aagatccatt tagatacctt agtggtccact 300
 tcaagtttg ccaagtgtgag cttgcaggat tccccatgaa tetgcttata atacttacag 360
 tatgagctaa gtcaggtctg atgcaacctt tccatacatt atgcttncaa caccactg 418

<210> 19723
 <211> 389
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19723

tatagaatat ataataagat aacaatgaca attgaagaat cgattcatgt ttccattgat 60
 gagtctaattg ctattttctcc aagaaaggat atttttagata atattgcaga atcttttagaa 120
 taaatgcaca ttcattggaca agattctaaa ggaaaaggag aaggaagcaa tgaagatcct 180
 ccagtagaag tcaaagcaaa taatgatctt ccaagagagt ggaaagcttc aagagatcat 240
 cccattgaca acattattgg tgatatctca aaaggggtta caactagaca ctctctcana 300
 gatntatgca ataacatggc ttttgtatct atgattgaac ctaanaattt aaatgaagcc 360
 ataatagatg aaaatggata atagctatg 389

<210> 19724
 <211> 313
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19724

tggaaatgat taccatata ctgtaatgca ttaccagagt atatttttag aaaatattct 60

caacagtcac atcttttttat gtggttcttg aatgactatc aaaggcctat atatatgtga 120
 ottgagacac gaatttgoga agagtttttc agaacaaaaa ggtcttatcc tcttataaag 180
 aaaaatcggt ttaactctctt acaaattcct tggccaaatt aattatcttt caatctctt 240

<210> 19725
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 19725
 tacgtaagat tgaagaaac ataatatat atttgaaata atttatattt aaaattataa 60
 gggatttttg cataactaat ccaggtagaa ttttagatata taggagggga aaatttataa 120
 ttataaagaa gatacacata attaattcat gagaatttaa atttaacatt tttaaagaag 180
 ttaataatga tgagtgtaga ctaacgttat tcataagata cttctatact ctaatttcat 240
 tcatacgact ggagcagatg attcaaaaca tgagaactta ggtgcaaat ctataataat 300
 at 302

<210> 19726
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 19726
 agctttgatg ttgttagtcg ccatttggat gtgcagagtg tcatcttggt ggattctgag 60
 aagaagatca ataaaatctt ggtctctctaa ttcagctcca tcttcttttg caattttgtt 120
 cttttcttga tgcctcttga tgatggcttc caggaccttg tcaacctgct tgtgcaactt 180
 attcaatctg gtcactcttc cagttaggaa atataagaat ggaattgaag gatagacatc 240
 atcaaggctg aatctctccc cggattctac gatttttcgg atcaaagaca ccacaaactc 300
 atcttgctcc ttgcataatg caccgaactg tctctgttaa atagaggctc atatcaatg 359

<210> 19727
 <211> 348

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 ctttggttac taccaaatga cacaacaatc tgcattgagat tgatctaata ggtctaagta 180
 aacagaatgt gacatgtctg cttctagag aagatgagag atggatttgg catagaaaac 240
 atgatttctt ctttcttctt ctttcttctt ctttcttctt ctttcttctt
 ctttcttctt ctttcttctt ctttcttctt ctttcttctt ctttcttctt
 ctttcttctt ctttcttctt ctttcttctt ctttcttctt ctttcttctt
 atagagatat gtttggacca ac tgaattg 480

<210> 19730
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19730

tgcgccttag ttgcgcattg tgtgtaaata catgatcctg tgtatgatga tcacggatac 60
 aaggcaacca gggaatgata ttgatgtgta ttttacacca ttaatcgaag acttgaaaaa 120
 attgtgggaa gaatgagtag atgcgtggga tgcaaatgtg cagcatacat tcacattaca 180
 cgcaatggtg ttttgtacta ttaatgatta tcacgcatat ggaaatttaa gtggatatag 240
 tgtgaaaagg catcatgcat gtcttatctg tgagaaaaac acaagcttca tccaactcaa 300
 gcatggaaag aagacagtat atacgagaca ccaagattt ctgatagett ttcacctta 360
 ttgatgattg aaaaaatctt ntaatggaag tcaggagaat gaaggctccc cagaaccatt 420
 aactggaaac caagttcatg atcgggtaaa ggac 454

<210> 19731
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19731

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 aagaaagact tcacatcatt tatgaattgc atattactac caaatatcaa tatgtcatcc 120
 acatdcaaac ataaaatgac acatccattt tcattcaaat gtttcacata cacacattta 180

tcagtattat tgattagaaa accatacgaa agaacaattt gatcaaattt ttctgtccat 240
 tgccttggag cttatttcaa accatataaa gatttaacaa gtttgcaaac tttctttct 300
 ttcccggtt ctacaaagcc tttaagttgg ctcataataa ttctctcttc taattcacca 360
 tctctctcttc tctctctcttc tctctctcttc tctctctcttc tctctctcttc

<210> 19732
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19732

taattacat gtccaagct cctctcccat tgaacccaac actatcacc aggcctctcg 60
 cgaacctgat tggcgctcag ccattgcaagc cgaattctgat gccttacacc acaacatcac 120
 ttgagatctt gtcagtcggt cctctgatca aaatttgggt ggctgtanac gggctattcg 180
 aatctaacga aatccagacg gatcaattga tcgttacaa gctctgttag tcgccaaggg 240
 gtttcaccaa cgtctctggt gggactatac agaaaatttt agccccgttg ttaaacgggt 300
 gaccattcgc attgtcttaa ctctgcagt tcgtcaaggg tggcccatac gtcagcttga 360
 tctcaaca 368

<210> 19733
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19733

taaagtctca cgattgccat atcttgatgc aataattggt attcgtggcc ataagagaca 60
 tttttcttaa caaagtcaaa catgccataa ctcaatcgtg cttttctcttc aatgtcatat 120
 gtagcaaaagt ccttgatcct gccaaagttg atgagctaga aaatgaggtt accaatacat 180
 tctgtcagat ggagatgtat tttctctctg tcttctctcg cattgtggtt caattaatgt 240
 tctatctggt gagggaaaat aaatgttatg gtcttcttta ttgtgtgttg atgtacccga 300
 tttaacaata ctagaagatc ttaaatggtt atacaaagaa tctacacagt ttgaagcat 360

ctattgtggg aaggtacatt gtagaagaag ctattgagtt ttgttcagag tacattgaaa 400
 aggcaaaaact tgttgtgctt cccaagtctc gacatg 456

<210> 19734
 <211> 330

<210> 19734

agttttagg cctaggatct ttttatcaa tggactcctt taatttttg aagatgaatg 80
 acagtggaaat ggagaaggaa gagagagaga ggagatgcca ctccaaggag aagatgagtc 120
 tagaaggagc tcaccaccat aggagggccat ggataagagc ttggaggaag aagaagataa 160
 atgaagggag aggaagagaa gaacacgaaa ttttatgctt tacaagagct ctaaaatctg 200
 aagtttaatt ttcaaatgat caaagttcaa aaaaatacac acacatgacc tctatttata 240
 tcttaagtgt cacacaaaat tggagyaaaa ttggaatttc tatcacatc tcacttacat 280
 ttganattaa atttgtggag ccaaaatttc actaattatg attagtggaa tttagctatg 400
 gttcagtcga ctagtccaag at 442

<210> 19735
 <211> 330
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19735

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 gttgttcaat ntgagcctc tggacatatt atgcaccoga atcggacatc cgtgtgaaaa 120
 gttatgatca ttggaatttc tggagagctc cggatgttta atttggagcg tatcaatatt 160
 ttataaccgc gaatcggacc tcactgtgac aagetatgac catttgaatt cgacgagagc 200
 ttccgttggt caatttcgaa tatcactata tgtgatgcgc ctaaaattgga cattcgagat 240
 aaaagctatg accattagga tgtctcaaga 320

<210> 19736
 <211> 330
 <212> DNA

<213> Glycine max

<400> 19736

agcttgggag aagaatgaga tgaatgaagg gagagggaga gaagagcagc aaatttgtgtg 60
tgaatgaagg aagaatgaga tgaatgaagg gagagggaga gaagagcagc aaatttgtgtg 120
tgaatgaagg aagaatgaga tgaatgaagg gagagggaga gaagagcagc aaatttgtgtg 180
atttcactaa tgaatgagag tgaatgagag tgaatgagag tgaatgagag tgaatgagag 240
ttccaagatt ctccactaag tgtgcttaag tgtcatgagg catgtaaagc atgaaagaca 300
tgcacaaaat gtgactatat ga 382

<210> 19737

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19737

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acttcttctt ctagttagcc attaagaaat gcagatttta catccatttg gtgtacttcc 120
cagcaattga agctagccat tgctattaca agtttctactg tttccaacct agcaacaggg 180
gcaaatactt catcataaac cagaccttgc ttttgcaaaa atccctttgc aaccagtcctg 240
gctttgaact ttgttacttc tctctacga ttcaacttag ttgtgtagac ccattctact 300
gctatggctt tctttcctat tagtagctat gtgagactcc atgtcttggt tctctcaata 360
gacctcaact c 371

<210> 19738

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19738

tttgtgaatg tatgtatata tgancttgat gatgccaaag ataateggct tctcaagttt 60
gatccaagtc aagaattcag aaattcataa aataactccc cagagtcaca actcttcaga 120

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aaataactcc tgagagtcac atctgttcaa gagatttttg aatggacatc aaaggcctat 180
aaataggtga cttngnacac aaaatgaatg agagagattc caagagaact tcattctcaa 240
atgctctctc aaaagaaaact cttagggcaa cacttgcaaa tccattaaga gttcatccat 300

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<E10>      19740
<E11>      421
<E12>      DNA
<E13>      Glycine max

<E23>      unsure at all n locations
<E400>     19740

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ctattattag gagagaactc ggcaagtgc acaaccacaga aaaacatgat tggaaatgcaa      120
gaatatatga catagtaaat atataaatcta aaaatttact ttgttttag gttaatgcat      180
taattatctc aagattaaat taacacattt ttctctcttc tcttttcacg aatguttgca      240

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agagagagca agtaattttg agaactcaaa acttgaaaat caatgtacct ttaggttaaag 300
 ttntgaagca tattttatga ttctgatttt tttaaataat tattatagaa ggggttagtt 350
 tactcttttg aatctgtcac atataatctt ttttagattg tacttaactac attttgaaac 400

<210> +0
 <211> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19741

agcttataga ttatataata agagaacaat gacaattaaa gaatcgatcc atgtttccctt 60
 tgatgagctt aatgttattt ctccaagaaa ggatatttta gatgatattt cagaatcttt 100
 agaacaaatg catattccatg gagaagatta taaaggaaaa ggagaatgaa gcaatgaaga 180
 tactccagta gaagtcaadg caaataatga tcttccaaga gagtggaaag ctccaagaga 240
 tcattccctt gacaacatta ttggtgatat ctcaaaaagg gtaacaaata gacactctct 300
 canagattta tgtaataaca tggcttttgt atctatgatt gaacctanaa atttanatga 360
 agccataata gatgaaaatt ggataatagc tatgcaggaa gactanacca atttgaaaga 400
 aataatgttt 430

<210> 19742
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19742

tatagtctca cgaatgccat atcttgatgc aataattgtt attctttgcc ataccagaca 60
 ttattgctaa cagagtcgga catgccataa ctcaatcgtg ctntttcttc aatgtcatat 120
 gtageaaaagt ccttgatcct gccaaagttg atgagctaca aaatgagget accaatatcat 180
 tgtgtccagat ggagatgtat tttctctctg tgtttcttcg cattgttggtt caattaatg 240
 ttcatttggt gagggaaatt aaatgttatg gtctctgtta ttgtgtgtgg atgtaccgca 300
 ttgaacaata ctagaagatc ttaaaatggt atacaaagaa tctaacacct ttgaacatcat 360

ctattgtggg aaggtacatt

380

<210> 19743

<211> 162

<212> DNA

<213> Glycine max

<214> Glycine max

<215> Glycine max

aaagctctoga gagattcgaa tggctctaac tgttcacacc gatgtccgat tggggcgag

120

attatagaag agatgctoga aattgatcaa cggaagctct cg

162

<210> 19744

<211> 230

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19744

taagacatct ctctatggac ttaaacaatgc accgatgcaa tggatatggtt tacttanaaa 60

cttcttttctt gaacaaaaat ttgagagagg aaaagttgat aaaacacatt tcattaaaaa 120

gatctctcat aacattttac tcatgtaagt ttatatggat gacatcattt ttggttctac 180

taatcgatct ctttgtgaag attttgtaca caagatgcac gaggagtttg aaatgccaat 240

aatggggggg gggattatat tactttcttg gtctctatgt 280

<210> 19745

<211> 446

<212> DNA

<213> Glycine max

<400> 19745

agcttgaagg caaactggat gcattgggta acttggtaac ccagctggcc ttgaatcaga 60

aattctgtacc ttctgcgaagg gtttctgggtt tctgtctctc tcttgaccac catacagacc 120

tttgcccttc catgcagaaa cctggagcaa ttgagcagcc tgaagcttat gctgcgaaata 180

tttacaatag accctctcaa cctcagtgcg aaaatcaacc acagcagagc aattatgacc 240

tctccagcaa cagatacaac cctggatgga ggaatcaagg taatctcaga tcttccagcc 300

ctcagcaaca acaacagcag cctgcttctt ccttccaaaa tgctactggc ccaagcagac 360
 catacattcc tccactaatc caacaacagc aacaacccca gaaacagcca acagttgagg 420
 cccctccaca actttccctc gaagaa 446

<323> insure at all 11 locations
 <400> 19746

tgtagcanat tcaaacagga aataaatttt actcggatgt ctatttatgt ccgtaatat 60
 atcgagatgc ttgaaattga aaacggaagc tctagcaaaa tgcaaaacac aataactttt 120
 tactcggatg ttcgattgtg tctcgtagta tatcgagaag ctcgttattc aaaacagaac 180
 ctogtatcaa attcaaacga caataactat ttactogaat gtttgattgt gtcccatagt 240
 atatcgacac gcttgcaatt gaaaacagaa gctcttagaa aattttaacg acaataactt 300
 tttactctga tgtccgattg ggaccogaat atatcgag 338

<210> 19747
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 19747

tgatgactac cctcttatgt gaacaatacg ggtattttac atcttgttac atgaatatgg 60
 cacagccatt agaaataacg ctaggttagt agccaatgga tacaatcatg aagaggggat 120
 agattatgag gaaacatatg ctctgtttgc tagattataa gccataacag agatattagc 180
 cgttgcatcc ataattggaat ctaaacttta tcaaacggat ggaaagaggg cctttgtgag 240
 acgcttatcc cagaggacgt atatgtctat caaccccttg gctttgaaaa ctacagatatg 300
 cctaactcatg tctttatatt gaaaagggct ttatatggta tacaacaagc ctctagggct 360
 tggatatg 367

<210> 19748
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19748

tattagtttc ataatgatgca gatggggttg tagctacctc atgcacacct ctaatgacta 60
 agtctctctc cctc cctc cctc cctc cctc cctc cctc cctc cctc cctc cctc
 tttggtgtt ggtttgtttt cctc cctc cctc cctc cctc cctc cctc cctc cctc
 ttggggggca atgggcacat agtctctc aa atc cctc cca g acctacac agatctcttc 120
 caatgagttg tataatacct gagatacctc tcttgatggg tgtggctcctg gaaacaagga 360
 taaatctttc taagaatact etc 393

<210> 19749
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19749

agcttgcaca ttgctgcttg atagaagaag agcaagacgg taaatcatgg taactttgaca 60
 tcaagcggta cytagagtat aaggagtatc cacagggggc ttctgacaat gacaagagga 120
 cattgtgaag gttggcaact agtttctttt taagcggagg taccctatac aaatgaaatc 180
 atgatatggg ttgctctga tgtgtagaca ctaaagaagc cgagcgaatg ctcatggagg 240
 tacatgaagg gtcctttgng atgcatgcta atgtgcatgt catggctagg atgattctaa 300
 gggcagacta tcactggctc accatggaaa atgactgttg catccatgtg aggaaatgcc 360
 acaagtgcac ggcatttcgg aacaatgtga atgctcggcc tatgcctttg aacat 415

<210> 19750
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 19750
 agcttctcct ataacacagt atcatcagca tattgaagaa catcacagg aactttgttc 60
 ttcccccacca aaaaacttct gaacctatct tgggaaactg cttctctcat caacctctgc 120
 aatccctcag ccaactaaatc aaagaggaga ggtgcacaagg ggtcacttg tctcaatcct 180

ctttgaggat taaattctga agttgggctg ccattaacaa gaacagaaat ggaagccgaa 240
 ttaaggcagg cccctatcca tctaaccat ctctcatgga accccattct cttcagcata 300
 taaatgagaa atggcaaga tacaatcca taggcctct tacaatcca cttttaaacc 360

<210> 19751
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19751

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 aatgggtgaga atggaggatt gccttgaggg tctcactta ngcaatcatg aaacacaact 120
 ccaaaactcga aagtggagga cacatgacca gccctaagca ataacattca tgtggctcgg 180
 aaaaaggggtg agaatggagg attgccttga gggctctcac ttangcaatc atggaacaca 240
 gctccaaaact cgaaaatgga ggacacgtga acaaccctaa gcaatagcat tcatgtggct 300
 ccgaanaagg gtgagaatgg aggattgcct tgagggtcct cacttangca atcatganac 360
 acaactccaa actcgaaaat ggaggacaca tgaacagccc taagcaataa cattcat 417

<210> 19752
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19752

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 gcttgtgtct ccttcacaga gagggcatgc aggatggcct ttaaaactgc attcattcaa 120
 attcctatat gctagaaagt cattaatggg gcccaataac attgacaca acattgaatga 180
 tcaattttga tagccatcaa acacaacaat gcaactcacc tacaactttg tcaagtactt 240
 aatcaaggga ccgagataaa caccaatata ataatctcga ctgtcttggc gctgatagca 300
 tcaattgacaa catcatgtat atttgttgca tggcgaacc 339

cttcggtgtg actagttatg accatttgaa tttctcgaga gcattcggtg ttcaatttcg 180
 agcgctctgga tatattatgc gcttgaatca gacctccgtg tgacaagtta tgaccatttg 240
 aatctctcga cagctttcgg tcttcaattt atagcgtctc tttatgtgat gggcccaaac

<210> 19756
 <212> DNA
 <213> Glycine max
 <400> 19756

agctttcact ctccaagtct ggttcaggcg cataatatat cgagacgctc gaaattgaac 60
 aaagaatgct ctcaagaaat tcaaatggtc aaaacttgtc acaaggaggt ctgattcagg 120
 cgcatttatat atcgagacgc ttgaaattga acaacgaatg ctctcgagaa attcaaatyg 180
 tcataactty tcacacggag gtccgattca tgcgcataat atatcgagac gctcgaaatt 240
 gaacaacgaa tgttgctcag aaattcatat ggtcataact agtcacacgg atgtccgatt 300
 catgcgcata atatatctag acgctcgaaa ttgatacagc aatgctctcg agatattcaa 360
 atggtcataa ctttgteca 379

<210> 19757
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19757

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 gtatgtatac atgattttga tgatgcaaaa gaagaatcaa actaagttgc ttcaaaggat 120
 aagcatggct ttaagattaa tacaagattg attcaacaaa catagccttg cttcaagatt 180
 aactcaagat caagcctggc cttaaaacaa agtgctttca agacatgcaa ggccttggtg 240
 atcgattacc aagcagtgta atcgattacc agaagacagg gttgagaaat agctgttgaa 300
 aagggttttg aatttgaatt ttcaacatct aatcgattac catatgttgg taatcgatta 360
 ccagtggaag gtttcaaaa aagtcacgac acttcacatt ataactgtgt aatcgattac 420

acaaacattg taatcaatta ccagtggaga

450

<210> 19758

<211> 394

<212> DNA

<213> Glycine max

gctatc caa gaaagggggg tggc agga ca agcaaa taatc gga attaaa gc
tatttcaatt tcaatgcaag ttacaaatto ccttaaaaaat gaactcttaa ataatgatto 180
acatogaaca atctgaatat aaatataaag caataataaa taaaagagtt taagggaaga 240
gaaagtgcac actcgggattt atattgggttc ggcacacccc ttgtgcctac gtcagtcctc 300
caagcaacccc gcttgagaat tccactatct tctagaagct tttacaagtt ctgaacacac 360
atagacagtt cctcctttga gttcatactt cttt 394

<210> 19759

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19759

tccttaagaa gattcctaaa gaagctagag cttagctaca ctcacatctc taatagctaa 60
gtccacctcc ttgagatgag aagctagagc tttagctacac accccctata atagctaagc 120
tcacccccat gacaaanaaa gatgaaaata caaaaaaaaa aaagtcctta ctacaaagac 180
tactcaaaat gccccgaaat acaaggctaa aacctatac tactagaatg gccaaaatac 240
aaggccccaa cgaaggaaaa acctattcta atatttacia agataagcgg gtcatactt 300
agcccttggg ctcaaaatat accctaaggc tcatgagaac cctagggcct tcccttggat 360
ctctagccca atctacttgg agtcttctac ccaatgcctt tgcgggatag gatggcatca 420
ataactttca catgg 435

<210> 19760

<211> 451

<212> DNA

<213> Glycine max

tcttttgagan aacttctcttg agaagctaga gcttagctac tcttacctct ctcataacta	60
gcttctctctt gcttctctctt gcttctctctt gcttctctctt gcttctctctt gcttctctctt	120
gcttctctctt gcttctctctt gcttctctctt gcttctctctt gcttctctctt gcttctctctt	180
gcttctctctt gcttctctctt gcttctctctt gcttctctctt gcttctctctt gcttctctctt	240
gcttctctctt gcttctctctt gcttctctctt gcttctctctt gcttctctctt gcttctctctt	300
ctagaatgac caaaatacaa ggcccaaaag aaggaaaaac ctattctaat atttacaaag	360
ataaagagagc tcatacttag cccatgggct cyaaatctac cctaaggctc atgangaacc	420
ctagggcctt ccttggatct ctageccagt c	451

<L10>	19761
<L11>	426
<L12>	DNA
<L13>	Glycine max

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<223>      unsure at all n locations
<400>      19761
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ctggagttgc tgcacatgat gtccaacggt atgtcaagga ataagatcgg gctgcacaat	120
gcacaaggca agataaaaatg tctaatagaag aattgaagtt gcaggatcca cgatgtcgga	180
tacaatgtcc tgacatcctg cccgaaaata ctggagttgc tgcacaatgc ataagtcaag	240
ataaagtgtc aaatgaagca ttgaagctgc aggatccacg atgtcggata cgatgtcctg	300
acatctttgcc cgaaaatact ggacacataa atctgttata tctttaacag attattgtgc	360
agtttagcaag agattagatg atctatcttt aggaacgaat taaaagatca ttanagttcg	420
aatttc	426

<210>	19762
<211>	443
<212>	DNA
<213>	Glycine max

400 1962

agctcgaaac atatagattt aatcctagct cctcttaadu acttagttat tataatcttc 63

aactgggcat tagaattgat gaacccagcg ataatctcct tggacaataa tttctctcga 120
atgaaatgat aatcaatctc tatgtgttta gtcttttcac gaaagactgg atatgacgca 180
atcttctcga atgctctgatt atcacagtat aacttcaatt gcaccacttc agaaaattcc 240
gcttctctctc tctctctctc tctctctctc tctctctctc tctctctctc
tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc
atcttctcga atgctctgatt atcacagtat aacttcaatt gcaccacttc agaaaattcc 300
gcacaaatctg catcacataa tct 443

<210> 19763
<211> 389
<212> DNA
<213> Glycine max
<220> unsure at all n locations
<400> 19763

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tagggtctaca gacgtcttag aattgataca tacgaatata tgtgggtcat ttcatacacc 120
ttcgtggagt ggttgacaat attttatatc attcatagac gattaatcca gatatgcata 180
ctttgttctt atacatgaaa agccacaatc tttggatgtg ttaaaacatt taaagtttaa 240
gttgaaaatc aactcaacaa aagaataaag tgtgtcagat ctgaccgtgg tggtaaatac 300
tatggcagat atgacagttc aggtgaacaa tgtctggngc cttttgccag gtatctagag 360
gaatgtggaa tcacccaca atacaccat 389

<210> 19764
<211> 412
<212> DNA
<213> Glycine max
<220> unsure at all n locations
<400> 19764

agctntcata tgatgggtgt agagaggcta acttaatcat ggttagcatct tcatcctcta 60
tcttaacatc tatatctctt aattccatca aaatagaatt caattcatca agatgatctt 120
taagagatgt accttctctt atgtgtaaac caaataaaag cctcttcaag aagagctttt 180
tgcagattga cttagtcata tacaactttt ccaacttgag ccataagcca cttagcagttt 240

cttcatttgc aatttcatat aaaacttcat cagacaagga aagcaagatt agtgagtgtg 300
 cttttcttct ttgtttctgca agtttttcag tctttgaaat agaggccttt ttttttgatt 360
 cagaagccac ttttttcttc acacatgcag aacaaacaat agcctaaata cc 420

<210> 19766
 <213> Glycine max

<400> 19766
 agtgggctac attgatgcac actgactatg gcttgtgcga ttttggcaat taaatacggg 60
 aggtccaagt tgtctatcaa agaagatgat gytgagagta ctacctcta ttaaccaccc 120
 taatcaactt tgtgaaggaa gatgactcag catgaaaagtg ataacgagtt ttctgcagga 180
 gtacagaactg agctaagaag ccgtctgagc taatacatgc tgacgtctat gggcccatca 240
 agccatgctc actacgtaaa ataattatct cctccttttc attgatgaat cttgaagaca 300
 aacatgggtc tattccgtat agcacaagtc agaagtgttt tctgccctta agaagttcag 360
 agctacagtg gagaaagaaa atcgtttatt tatccacgcc atgaggattg accg 424

<210> 19766
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19766

cgtgggntaa agtctcacaa tagtcacgtg ttaatgttct tttgttagcc gnggcctatat 60
 gagacatctt gcgaaacaaa gtcagggttag ccattgactcg cctgtgcttt ttcttgcattg 120
 ccattatgtag caaagtcggt gatccctgca agtatgatga gcagtgaat gaggcctgcaa 180
 ttatactgtg ccagttggag atgtatttct cccctgcttt ctttgacata atgattcact 240
 tgatttgtca gtggatgtac ccggttgagc gatacatgaa gatcttaaca gggatatacag 300
 agaatcaata tccgctagaa gcatctattg ttgagaggta catctgtata agaagccatt 360
 gaattctgtt agaatacatt gagaacgcta tacctgatga cctctctgag tctcgacatg 420
 atga 484

<210> 19767
 <211> 438
 <212> DNA
 <213> Glycine max

aaagaaatc agaaatcagc agaaatcagc agaaatcagc agaaatcagc agaaatcagc 121
 aatgcaccaa gtttatctgt attgctgatg tgcatagatg ttgacagggc tgatatttgg 180
 ttttttggga ttacggcact tgagttggct catggccatg caccattttc aaaatatctt 240
 caatgaagg tatttacatc cctgggttgt tcagagacaa tgtctagaca catgttaaca 300
 ttggacgatg tgaagttcat gtgatataat ttgtaataaa agaaaaagag agttcacttt 360
 ttaattcatg tataggttct tctaatagaca atgcagaatg cccctcctgg acctgatgat 420
 cgagataaaa agttctct 438

<210> 19768
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 19768
 agcttagaaa gacattatct cattcataac attatgtaaa cttagagagcc atccacaata 60
 tgcgaataaa acatatatga ataattaaag gacatagaac acaataccga atgtaagtac 120
 ataccactag ccatatatca ttgaaggat taagggttaag acacataatc ataaacagcc 180
 aagagcaggt ctatataatc ataattgtca ggcatactaa gcaagtgtta aaagaaatac 240
 taagtgttca aatgtcataa aaacatatgc aaatacaagg cttacgaaca aatataatta 300
 taatctaat atattatccg agaatcaaaa ctttaattct agtaacaaaa attagatatg 360
 aacacataca ttgtaactta ttacttatct cgattaatga accactagaa tgttaagtac 420
 gaataacaat ca 432

<210> 19769
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 19769

agcttataaa gataaatgat gacatgattt tttcccaatc acactatgtt gaaaagctgt 60
tgaagaagt taattatttt gatatataac aggtttctat tctttatgag tcatcattca 120
tctttatgag tctttatgag tctttatgag tctttatgag tctttatgag tctttatgag 180
tctttatgag tctttatgag tctttatgag tctttatgag tctttatgag tctttatgag 240
tctttatgag tctttatgag tctttatgag tctttatgag tctttatgag tctttatgag 300
aattaaaagg aacctcaat tatggcattc attatacatg ttttctgca gtaattgagg 360
ggtttagtga tgcaaatggg atttctgatt ctgatgaaac aaaatcaaca agtgggtatg 420
tttttacttt a 481

<210> 19770

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19770

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ttcacccaac gaagacactg acaaaaactt atctttctct tcttggacaa agtatggcag 120
gttgnggggca agtaaatctt cttcccatca gaccttggat gcaactgtga tcttataccc 180
atatcagcta gatcttgacg ggtattcaag ccctccttcg tcttgccttg aatgttaagg 240
agcatcccaa tcacactgtc acaaacattt ttctccacat gcataacatc aatacaatgt 300
ctaaggtcaa gatcacacca gtacgaaaga tcaaagaaaa tggacctctt cttccatag 360
caactctgac ttttatectt cttttgggtc ttcccaaata cagtattcag gtgttgaacc 420
cattgatata cctgctcacc agtcaac 447

<210> 19771

<211> 397

<212> DNA

<213> Glycine max

<400> 19771

agcttaacaa gttgaatcag agaaaagtct ctatggcagg ctttaattact ttaatttaatt 60

ctgtttctgac agccttgcct ttattttata tgtttttctt caaagctcct tcagcagcgt 120
tagtgaggct gacttcaatc caaaggaatt tttgtgggg aggaggtgct gaagggaaaa 180
agatgccttg gatggcttgc gatcatatat gtactcctag aaatcaagga gggttgggta 240

ctgtttctgac agccttgcct ttattttata tgtttttctt caaagctcct tcagcagcgt 120

ctgtttctgac agccttgcct ttattttata tgtttttctt caaagctcct tcagcagcgt 120

ctgtttctgac agccttgcct ttattttata tgtttttctt caaagctcct tcagcagcgt 120

<210> 19772
<211> 235
<212> DNA
<213> Glycine max

<400> 19772

gggcctatga cagtggcaag cctgaacga atgattcttg cctatgttgt gggyggctag 60
tggacagaa ctacctctg tcaactatac tcagagatgc aatctgacac cttatgacac 120
atatcaggta tatattgtca tgactttcaa gacatactta ctgtggcctc gagagattca 180
ggactgacca ttgcccatag tatgaacaca tctgcctac tgcattacgt ccatacgaag 240
gtccagtcac cgagttctct gctaccattg caccacgaca cagtg 285

<210> 19773
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19773

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gaagaatgag cagtggcaga tggaggcagc tagatacctg aactgtggag ttctgtcctt 120
tccttttgcg taattgggta tccccattgg ggataatcca agatgtagtg atctttggga 180
tcttatagtc agaaaattcg agagaaaatt agctttcttg aaacaccaac atatttcatt 240
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atggngagga ggtatggatc agagaaagat tgccttggtt aattggaaaa cagtctacaa 420
tccaaaggat atagaggac ttggc 445

<210> 19774
 <211> 402
 <212> DNA
 <213> Glycine max

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 ggtgtcaacg actaacacca tgcagcgcaa agggaagcat ctggtgcaa tcttgtgatg 180
 acaaggtoat cttctgaaat atatctctct gatattntta ttageggoot caactgcttc 240
 attcatotta agccagtaag gcatggaatt atggtgttag atnttgaaat cctcacacat 300
 ctcttccttc atcttgttgt tcagattggt ggcattgaag gtgataattt tcttagcaa 360
 cccatategg caaattatct ccttntgat gaaactaatc ac 402

<210> 19775
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 19775
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 gtagttgttg aacatgggtt ctagtaatgt aattccaaag acacctcttg agctgtagac 120
 aaataggata cctactataa tgcacctgca tgtatggggg tgcagggcag atataacgat 180
 ttataatccg caagaaagaa aattggatgc aagaacaatc agtggatatt tcattggtta 240
 tccagaaaag ttaaaagggt gtatgttcta ttgtactact catagatgag aactgacaaa 300
 ct 302

<210> 19776
 <211> 451
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 19776

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 ctttatactc ttaaattact tgcgggttga catcatgac aatctttaca accgttaatc 300
 tgtcttcata ttcctgcaag ttattattat aaaaaataat catggctccag gggagacaaa 360

<210> 1479
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19779

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 tcccgagagc ttcggttgtt caattcttag catctcgata cgttatgtgc ctgaatcggg 120
 catcgagagtg aaaagttatg accatgtgaa ttctctgaga gcttaacgtag ttaaatttct 180
 agcggcatga tacactatgc gctggaatct gacatgcgag tgaagagtta agagcatttt 240
 aattttctaga gagactgcga tggtgaaagt cgagcgacat gatgtgtcat gtgcctgaat 300
 cggacatgcg cataatacgt tatgaccata tgaatctctc cggagcactct gtcgtgcaat 360
 tacta 365

<210> 19780
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 19780

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 attcattgta tgcataact atgtgtttta tattactgac ttgcacaaaa tcttcagggtg 180
 gcaataacag tcttcaagat cttgcttcat gtctctagge caaacacact ggttttgggg 240
 aatataccag ggaagccaat attccacac cctataccaat atagagaagg ttgaggatc 300
 ccttcattta tcaatttgcg tcttgagctt cccatctact ttgctaattt aacatacca 360
 caagaaaagt tagataaagg gaattgtaga ttggcgattt gtaaatgctt actacattc 420

aat

424

<210> 19781

<211> 439

..

..

..

..

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ttgttgatgg cttcttcccg atccaagctt caattggagt cttgtctttt acagaacttag 120

ttggacatct gttgagtatg taaacagcag tgtagaactgc tttagccacag aatgtgttag 180

gtagtccctt ctccttgagc atcgatctag ccactctcat aactgtgoga ttctttctct 240

cggaactcc attttgttga gaagaatag cgactgtaag ttgtogctca atgccttcat 300

cttcacaaaa cctttcaaac tcgcgagagg tgtactcttt gctgogataa cttcttagta 360

cttttaccg ttttccactt tgattntcag caagggcctt gaactttttg aatactccaa 420

agaacttctga ttnttcttt 439

<210> 19782

<211> 439

<212> DNA

<213> Glycine max

<400> 19782

gatctctaag cgactgagca tgcaagcttt gtactccact aaatttgcct ttgtttgacc 60

aaagctaata ccgctgacaa ccttgtgaaa gctgtgcacc caggatacaa aggcattctt 120

gaatcatttt ctattttctc atacaaaggt acatgtgctt gttgaaatct gtctgcccc 180

aaattgcaaa tcattgtctc tatacgggtat cccatgtcta catcgactga ctacaggtga 240

gagactgatg gcttgttttg caattcccca tgccatctcc attttgtgta atttggaatg 300

atcctatgac atatattgac tgggtgtctcc ttttccaca ttttaccat ggacagaaaa 360

atttaccocg cacacatggg gcattgagtt tagtaaatg gaggaattg tcaactctat 420

tctcatactc gtactgat 439

<210> 19783

1400 19783

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<E10>      19784 .
<E11>      405
<E12>      DNA
<E13>      Glycine max

<E23>      unsure at all n locations
<E30>      19784
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#210>      19785
#211>      443
#212>      DNA
#213>      Glycine max

#223>      unsure at all n locations
#413>      19785

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tgaaggtgtg tagccaccca tcttttcata gttgaatatt gttaatgtgt ctactattat 60
 tgtcatcacc tttttctccg tcattgaggt gccacttgag ctgccaggtc tctccacett 120
 tgggggtatt cttttgaaga atttgtgcc cttttttgca catgttttgt agttgcatec 180
 tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct
 tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct
 tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct
 aatttagat ggtcttggg gctagtaac ccttctact tgcctagtc cagcaccctg 240
 aacttgagag gggatgat att 443

<210> 19786
 <211> 231
 <212> DNA
 <213> Glycine max

<400> 19786
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 caggtgcata atatctcgag acgtctgaaa tacaacatcg gaagctctcg agatattcca 120
 atggtcataa cttgtctcac ggatgtacga gtgacgtgca taatgtatca agaagctgga 180
 aattgaacaa cgaaagctct cgagaaactc tgatggtcac aacttgtcac accgacattc 240
 gacacacgcy cataatatat cgagacgctc gaaattgaac a 281

<210> 19787
 <211> 246
 <212> DNA
 <213> Glycine max

<400> 19787
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 gaagtcggaa tcatgcgcac aatatacga gacctcgaa attgtctcacc aggaagccct 120
 caagaaagac aatgggtgat aactcttcaa acggaagtc caatcacgag catatatata 180
 tcgaagaagct tgaaattgaa caatggagc tcttcagaaa ttcagtcagt catatctcat 240
 cacaag 346

<210> 19788

<211> 470
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19788

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 atttacgagc gttctgatat cctacgggac acaatcgaac atccgagtcg aaagttattg 240
 ttgtttgaat ttgtctcagag cttcagtttt caattacgag cgtgtggata tattacaaga 300
 ctcaatcaga catccgagtt aaaagttatt gtcgtttgga ctttaataga gcttctgttt 360
 ttaantagag cgtctccata tattacgaga ctatattaga catccgagtc aatagtatgg 420
 ttgtttactt tcaagagagc ttgctgttaa ttgagcggc cgatatatat 470

<210> 19789
 <211> 405
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19789

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 gttctctcag aggtccaaa ttcaaaacag aagctattag aaaaatctat ggacgataac 120
 tttttacacg gatgtcccat tgagtcctcat aatatatcga gacgctcga attgaaaaca 180
 gaagcgtga ccaaatcaa acgacaataa cttttgactc agatatccga ttgtgtcccg 240
 taatatatcg agagctcga aattcagaac aaagctatta gaaaaatcaa acgacgataa 300
 cttntacac ggtgtccga ttgagtcctc taatatgtcg agcgtttga tattgaaaac 360
 tgaagctctg agaataatca aacgaccata acttttaact cggat 405

<210> 19790
 <211> 469
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19790

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 atcgagacgc tggaaattca aaataaacct ctcagcaaaa tgaaacgaca ataacttttt 120
 attcaaatc cggaaatgaat cggtaaatc atcgagacgc tcttagattt tggaaatgaat 180
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 tcttagattt tggaaatgaat cggtaaatc atcgagacgc tcttagattt tggaaatgaat 360
 gctatgagca aattcaaaag acaataactt tttactcgga tgaataccgt aatatatcga 420
 gacgctcgta attganaaca aaagctctga gcacattcaa acgacaata 480

<210> 19791
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 19791
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 agagcttctg ttcttaatta cgagagcttc gatataattac gggattcatt cggacattca 240
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 agatatatta cgggattcat tcggacatcc gagtaaaaag ttattgtctt tttatcttgc 360
 ccagagcttc tgttttcaat ttcgagcctc ttgatataat acatgactca atcggacatc 420
 cgag 484

<210> 19792
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19792
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gaagaacaaa tctgttaagg gtaccacgga acttcttgaa cagcatgtgt ggaggcccca 130

gagaggggttg ccagagcgtg cagtggcaat tcttaaagcc tgggtatttg agcattttct 240

tcattcgtat gttagtctct atctatgtct cttattaata tattctcttg cctgtgaact 300

<210> 19793
<211> 412
<212> DNA
<213> Glycine max

<400> 19793

agcttatata ggaagcttca aaggagaaac aaaatgagag agaggggaaa aaagtgcacat 60

gggaatgaag gaaagatggg gaaagaagtt gaactttgac tegtatgcaa tatcatactt 120

ccagagttca attgaccatg tcattcttg tctgactaac tcaggcttgc gtaatatctt 180

gcttattggg caatcagttt gaacagtgat cttgtggctc tgaaagtatt gtogaaggta 240

gcaagcggcg ttgaccagtg tgagggtac cttttccatc acctgttacc tegtctctag 300

atcttacagc tcccgactta caaagtatat cgacctctgc tatcttctct cctcttctat 360

caataccacg cttatggcct cgatcgagat cgacaggtaa acaatcaate tt 412

<210> 19794
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 19794

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acagaacaat tatgacctct ccagcaacag gtacaatccc ggggtggagga ataattccaa 120

ccttagatgg tgaatctct cacaacaaca gcaacaaca caaccttatt ttcaaaatgt 180

tgctagccca agcacaccat agttctctgc accaatccag catcaacagc agcaacagcc 240

ccagaacaaa caaatagttg aggtctctcc gcaaccttcc ctggaagaac ttgtgaggaa 300

aatgactatg caaacatgc agttcaaca agagaccaga gcttctcttc aaaccttaac 360

taatcagatg ggacaatttg ctacacagtt aaatcaaca cagtctcaga attctgacag 420

attaccet

427

<210> 19795

<211> 489

<212> DNA

<213> Glycine max

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caactctctt aaggaaaaac taatattgat ggggataaag tgtgtagatt tggccaatct 180
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aaactctctc ttcattgttg gccaccanaa cattatcttt agatccggat tcatcttggc 420
agcaaccaagg tggatgctca nngtgctct atgaccttcc tataagatca tcttctatg 480
ttcggcaca 489

<210> 19796

<211> 407

<212> DNA

<213> Glycine max

<400> 19796

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tcttccatt gatagagttc acctataata acagttttca ctctaccatt agcatggctc 180
ctatgaagc ttgtatgat agatgatgta cgacacccct atgttgggta gagcccgag 240
aaggctcac cttatgacca gacgtggtag aacaaaccac tgagaaagtt tagttaattc 300
aggaaaggat gagaactgtc cacagtacgt agaatagtta tcatgataag aggaggaaag 360
aattgggaatt cgaagttagc gatcatgtat tcttgagagt caactctg 420

<210> 19797

<211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19799

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gaggtttgtt ggtttttttt ggtttttttt ggtttttttt ggtttttttt

gaggtttgtt ggtttttttt ggtttttttt ggtttttttt ggtttttttt 121
 agatttcctt ggccaatata cttgcaattc aataaggatt tatttgagtg ctcaaattgt 240
 tcaatctatc tctttcaaga gagattttctt cttctcttca ctctaattct canaaaggga 300
 taaagagacc gagggctctt tgttgatatag aaatctgaac acanaggaag gattgtcctt 360
 ggttggttca gaacttgtat agggatttac aagatagtgg aactctcaag c 411

<210> 19798
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19798

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 agttattacg tttagactttt cctagagctc ccgttttcaa tttctagcgt ctcgatatat 120
 taaggggctc aatcggacat ccgagttaaa agttattggt gtttgacttt tottagagct 180
 tccgttttca attttgagcg tctcgatata ttacagggtc cgattagaca tccgagttaa 240
 aagttattgt cgttagattt ttctcagagc ttccgttttc aattacgagc gtctcgatat 300
 tctacgggac tcatcggac atccgagtc aaagttattg tc 342

<210> 19799
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19799

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tggatcaact ttactttgat ggtatggcaa tatgcagtea tgttgggtct ccaaatcttt 180
 ttattactct aacctgtaat ccaaattggc ccgaaattcg tagattactt tcacotttga 240
 atctcagacc aatagacacg ccagatattg tctcagcatt tttcagatta ataaatataa 300

<210> 19800
 <211> 507
 <212> DNA
 <213> Glycine max

<23> unsure at all n locations
 <400> 19800

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 acgggactca atccagacatc ccagtaaaaa gttattgtct tttgagttgg ctcagagggt 300
 caacattcaa ttccagcgtc ccgatatat tacgtcactg aatcggacat ccagtaaaaa 360
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 ttacgggaact caatcagaca ttccagataa aagtattgtc gttgaattgg atataagaca 480
 acattcaatt ccagcgtctg atatata 507

<210> 19801
 <211> 342
 <212> DNA
 <213> Glycine max

<23> unsure at all n locations
 <400> 19801

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 tctctactcg gatctccgat tgaatctcat aatatatcga cagctctgaa attgaattgt 180
 gaagctctaa gctatttcaa acgacaataa cgttctactc ggatgttcca ttcagtgacg 240

taatatatcg ggaagctcga aattgaatgt tgaacctttg agccaactca taagacaata 300
 aacttttaact cggatgtctg attgagtcgc gtaatatatc ca 342

<210> 19803
 <400> 19803

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 ccaaatgttg tgcctctaagg agcctcaaaa cattgaacct ttccaataac tgcctggtgg 180
 gagagatacc aaacgaactt catggccttg agagtctaca ggattttcat atattcaaca 240
 atcaattgag cgggttgata ccattctgtg tagygaattg gaccaatctg agagtgtgtg 300
 ctgcttatga gaataattcc tatggaacgt gtacaagtaa aactggatct atttatgagc 360
 ttacaacact taac 374

<210> 19803
 <211> 233
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19803

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 cataactgtt actcggacgt gcgaatcatg ggcataatat atccagacgc ttgaaattga 180
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<210> 19804
 <211> 389
 <212> DNA
 <213> Glycine max
 <400> 19804

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ctcaaaaacat gtttaccaaa gagttttact ctctggtaat cgattatcag attattgtaa 120
 tegattacca gcatccaaat ggatttgaaa aagctttcaa actgaattta caacgttcca 180
 attaatthca aagaactcta atcaattaca atcttttgtt aatctattac taatggcatt 240

atctatattt tttcaaaattt tttgatttt 300

<310> 19805
 <311> 370
 <312> DNA
 <313> Glycine max

<323> unsure at all n locations
 <400> 19805

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 ttatcagaga gatatcacat acctctgag tattcaaaga gttgagtcta agacttcaaa 180
 gagagaaaaga ctgtgtcatc atgagaatca tgagtgaaca tggtagagaa ttgataaca 240
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 caccacaaca gaatggcata gttgacagga gaaacttgac cttgcaagat gctgctctgc 360
 gcatgcttca 370

<210> 19806
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19806

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 aatggcatta aagaagccaa gatctaagac attaaaatca agcaagtctg ggggttgaga 180
 aaccaatgga atgtcaaaac cgccttcaact agcagcttaa tggaaagtgt tgcactcttc 240
 atcaagtga catggagcat tgccttggtg targaataa gtctctcttc tctctctat 300

tggccatttt gotttgattg cagacaacac atgatgaata agaanatgtt tgottacttg 360
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 ntcttt 446

<210> 19803
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all 3 locations
 <400> 19807

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 atcgagaagg tcgaaatgga ataccaaagg tctgagcaaa tccaaacgac aataactttt 120
 tactcggatg tcttattgag tcccataatt tatcggaaag ctcgaaatag aatacgaag 180
 ctttgagcaa attcaaacga caataacctt tttactcgga agtcggattg agtcccgtaa 240
 tatatccaga cgtcgaagt tgaatgttga agctctgagc aaattcaaac gacaataacc 300
 tttatactca tatgtcggat agagtcctgt aatatatcga gacgctcgaa atggaatacc 360
 gaagctctga gcaaattcac acgacaataa ctttatactc ggatg 405

<210> 19803
 <211> 376
 <212> DNA
 <213> Glycine max
 <400> 19803

agtcttttga tccaatttcg agcgtgtcga catattaagg gactctatca gacatccgag 60
 taaaaagtta ttgttgtttg aatttgytca gagcttcgat aatctatctc gagcgctcgg 120
 atatattacg ggactcaatc atacatccga gtaaaacgct attgtcgttt gaattcgcctc 180
 agagcttcgg tcttcaatat tgagcgtctc gacatatgtc tggacttate tccacttcgg 240
 agtaaaaagg tatttgggtt tgaatttggc cagaacttcc ggattcaaat tcgagcggca 300
 cgatttatta cgggacttaa tctcacatcc gaatcaaat tattgaagtc tgatttgcca 360
 gaacttcggt attcat 376

<210> 19803

<211> 459
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19810

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aaaattatga tatatataga gttgcattgc cttttatctc acatcagcat gttattcata 240
tgcgaagaat ttattactag tgtcttcata ttctgatat attgtctcaa gggtttgtca 300
ctacgaattt ggagtgtttg tttggttaga ctggtatgtg atgtgtcttt aggcagatat 360
gaatctgtgt gacaggtatt gcatggcggg ttattagcat gtatggtgca atttgaatct 420
ggagaaataa ttgtatattt tcacaagctc tctcagcta 459
  
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<210> 19810
 <211> 357
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19810

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agctntttct tatggctctg accacacatt attataacga acacccttaa tgtcataaac 60
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actataatgt ggaaaatatt taaaaattca tgtggacatc catggaagag ccagaagatt 180
cttcagtcga atgattcttc atgtactatt tattctcaaa ggaagttggt aattacacta 240
tcaccaagaa aaattggaaa tgagtctatt ttatttttag aacggatata atgtgatatt 300
tgtggatcaa tatattcacc atatggatca tttagatatt tcatgatgca tcaacta 357
  
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<210> 19811
 <211> 449
 <212> DNA
 <213> Glycine max

 <400> 19811

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ctcatgagag agtcaaaagat caaactcaga ggagatataa aagctatgtc ttctcaacca 60
  
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acaaagggag aaagaagggt gtcttcgaac ccggagattg ggtttgggtg cacatgagaa 120

aagaaagggt tccggaacaa acgaaatcaa agcttctacc aaggggagat ggaccatttc 180

aagtgcctga aagaatcaat gacaatgctt acaaagttga gctgcccggg gagnaataatg 240

gaggaatgctt gctgctgctg gctgctgctg gctgctgctg gctgctgctg gctgctgctg

gaggaatgctt gctgctgctg gctgctgctg gctgctgctg gctgctgctg gctgctgctg

gaggaatgctt gctgctgctg gctgctgctg gctgctgctg gctgctgctg gctgctgctg 4

gaggaatgctt gctgctgctg gctgctgctg gctgctgctg gctgctgctg gctgctgctg 449

<210> 19812

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19812

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ggcataggca aaagatcaag aggagttagt gggttaaaac cataaacaac ttcaaaagga 120

gaacaattag tgggtgctatg aacagctcta ttgtaagcaa attcaacatg gggtaaacaa 180

gcttcccaag tttttaagtt ctctctcaaa actgtcctaa gcaaagttcc caaagtccta 240

ttaacaactt ccgtttgccc atcggtttgt gggtgacaag tgagtgaaaa taacaattta 300

ntgcccactt tgctccacaa agacctccaa aaatggctta cgaacttaga gtccttatca 360

ctaacaatgc tcttggcaa accatggagt ctcaaatct tcttgaaaaa caaatcagcc 420

acatgggaa 449

<210> 19813

<211> 478

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19813

ccgtatagtt tatcaattca actcgagatt tgatataaac atccaaattt caatgtttcc 60

ccaatgttga tacagaataa cagcgatact catntaata tacagagagg gacatgctat 120

gatacggcaa tgataraaga gaatatggca aattgcaact tataaattaa ttaaaattta 180

agtttaatac taatgcactc acaagtttaa tggccaatca atcataaato tttattaata 240
 tataactttt aaggtataat ctattttctc tttaaaatta atttatttcc tttttaaaaa 300
 taaattagaa taaaagttca gattataaga gaattccatc tatagaaatg aacataagtc 360
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt

<210> 19814
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 19814
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 cttattttta agggcaatto ccccccccc ccaaccaccc tatagactcg tattccaagc 120
 ctttttgatc atagagtggc accctttatg attaagccac cagtcacaaa cccgaaaagg 180
 cttagggccc cagtcaccca tctttgtctt caaaatgatt ggacaatgat cagaataatc 240
 tctttgaagg acatgttggg aagtatcagg ccacaaggat aacctctgat cagacaccaa 300
 caatctgtcc agctactct tggcactgcc attgagccta aaccaagtaa aatagctgcc 360
 aaagcatcta atactatgga gctccatctt tgatatccag tcattgaaat ctgaggtatc 420
 tga 423

<210> 19815
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 19815
 ttccagtgcc tgtatattga tgcgcctgaa tccgacatac gagggacaag ttatgaacct 60
 ttgaatttct ccagagcttc ctatgtttta ttttgagcgt ctccgatata tataagctcg 120
 aatcgaacct cagtggtgaaa agttatgacc atttgaattt ctgttagagca tccgttgttc 180
 attttccagc gtctctatat gtgatgaacc ttaatccgac ctccgtgtga aaagtaatga 240
 ccatttgaat ttccagagag ctcccgttgt tcaatttcga ccgtctccag atattatgag 300
 cccgaatcgg acatccgggg gaaaagctat gaccatttca atttccagag agcttccgtt 360

gttcaatttc gagcgtctcg acatatgatg cgcccgaatc g

401

<210> 19816
<211> 240
<212> DNA
<213> Glycine max

gagcgtctcg acatatgatg cgcccgaatc g
ttgttcattt tttagcgtct ctatcttga ggcctcaa tgggagc c gagcgaatag 120
ttatgaccat gtgaatttct cgagagcttg cgttctgcat ttaagagcgg cgtacatat 180
taagcgtccg ataacgacat tcagggaata aggtatgaac ttatgaattg cacaagagct 240

<210> 19817
<211> 477
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19817

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tccattgtt aatggagtgg gttaccatta ttggaaaaac cgcattgcaa tcttcataga 120
ggctatagat ttaaacattt gggaagccat agaaataagg ccttgtattc ccaccatggt 180
tcttggaat acaacaatag agaagcctaa ggaagattgg agtgaggaag aaagaagact 240
agtacaatat aacttaaaat ccaaaaacat aattacatat gccctaggaa tgaatgaata 300
ctttagggta tcaaactata aaaatgcaa gggatatgtg gataccctac aagtaacaca 360
tgaaggcaca acanattgta aaagattctg gataaacaca ttaactcgtg aatatgaact 420
atntangatg aatgcanatg anagtatgca agacatgcan aagaggttca cacacat 477

<210> 19818
<211> 471
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19818

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aagttgtaac tgggatgtcc gattcaggag cttcacatat cgagatgcac gaaattgaac 120
aatggaagct cttagagaaat tctaattggc ataaaattctc acacggaggc cctattcagg 180
cgcttaatat atccagacgc tcgaaattga acaatggaag ctctcgagat attcaaatgg 240

<310> 19819 19819 19819 19819 19819 19819 19819 19819 19819 19819

<311> 420 420 420 420 420 420 420 420 420 420

<312> DNA DNA DNA DNA DNA DNA DNA DNA DNA DNA

<313> Glycine max Glycine max Glycine max Glycine max Glycine max Glycine max Glycine max Glycine max Glycine max Glycine max

<410> 19819
<411> 420
<412> DNA
<413> Glycine max

<400> 19819

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atatgtttcc ttttgtcttc taacaactta cccgctaaaa catagttaact cctattatca 120
gttacaactt gaacaacggt ctctttctca acttctctca caatagcctc aagcaactca 180
aaaagctttt cactgtctt caaaaaatca gagccatcaa cagacttcaa aaacattgta 240
ccagcttgag agttaacca agaattaatg atgcatcttt gtttcogate agtccatgct 300
tcgaacataa tagtacaacc atacttgacc cattgtctct tgtagtcttt catcagatct 360
ttagtgcagt caacttctt cttcacgagt ggaactctga tatcatgaca gctcggaatg 420

<510> 19820
<511> 425
<512> DNA
<513> Glycine max

<523> unsure at all n locations
<400> 19820

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agatgatggt acagogggtg aaccagaagc ggaagtctct tttggtgagg tagccatgga 120
aaagcagagc gtttggaatg atttcgtaaa ttccagaagg ctattgggaa atgctggtaa 180
aaacacgaat gccaaacaga tataaatttg aatgaggaat gtataductc ctgtgaagca 240
acggtcgaat ctctctgggt tcagtatgta acgtgctatt aatgttaaut gattcgtttg 300

ggcaggttca gattgctgta gttgctataa ttctcttagc acacaaatgc ccagcttgcc 360
 ctccagttnt tcaaaactgat ttgcattcaa agcctttgtg aacatatctg ctatttggtc 420
 ctgag 480

<223> 1.8
 <223> Glycine max

<223> unsure at all n locations
 <400> 19821

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 tatttatgta gatgagatct ttctctatagt gtaatttagga tcatatttct agtgcacattg 180
 tatctttaga attacctcta ttcattgtatc ctttttacag tttaatcaat ccgaaatata 240
 cataacttctt caattatttc ctccagtctc aaatatacca tgttgagtgt taccagcaac 300
 aaattttcag tataataaag tattactagc tatttccagt ccagttctat cagaatgtan 360
 aagaagggag ttaagttctt acaacagcaa caacaccatc atatgagtta agcttcacat 420
 ttgtcanaga agacatcaca tcaaatgcct ctctgtctct ctctgtcaca atcacctagt 480
 aat 483

<210> 19822
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 19822

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 acagagctac atacatcttg gaaacgatac atacggacat ttgtgggcca taccatacgc 120
 ctccatggaa tggtaacaa tattctatat ctttcataaa cgattactcc agatgtgcat 180
 atttgattga tatacatgag aagtcacaat ctctggatgc gttcaaaaaca ttgaaagtgc 240
 aagtgggaaca tcaactcaac ctctgaatgc actgtgtcag atctaaccgt ggtggtgaat 300
 actatgtcag atatgactgt tcaagtgaac aacgtccaga gcttatcttc acatacct 358

<210> 19823
 <211> 425
 <212> DNA
 <213> Glycine max

gatacaca ggcacatc cttctcagtc cagcatcttg ggatgtccc agcctttgat 120
 gacagcttcc caggtctctgc taccagtgga ttgaggaag gccaccatcc ttgctttcca 180
 gttaccatag ttggttccat ccagaattgg tggctctgtc actggctccc cttctttctc 240
 catgttccat agaatttacc tccctaggtc tcactcagtg atttcgagtg cccgtctctga 300
 taccgaattga aattctgata ccaatgccag atgtcgtaca ggaatgtccg acatcacgct 360
 ttagaacaag cagattatct ctgagtgtat gaacagatta tacaagtaaa taacacaaga 420
 gaatt 425

<210> 19824
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19824

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 cgaaccagta taaaattctt gtgttgttct tcttcttcca taaactattt aatttccggt 120
 gttgaattta cttttatgct ataattttgt ttaagttaca taacttagta gtaaagccta 180
 attgaattct gtaacattaa gaaggatcag ttttaattag tcaaggttac ttaataatta 240
 attcaacccc cctattctca attactccaa ggccaattga tccaacacat tgtaccctga 300
 gcaactgcca gatagttctt cttcttttct tttcttttct ttaagagctg aatgtaatcc 360
 atgtaccctt atgggtctct tctgatatta tgtatgtatt catcttctca cctttatcat 420
 tagtaatttc atttca 436

<210> 19825
 <211> 423
 <212> DNA

<213> Glycine max

<400> 19825

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gcttgaagg taaactagat gccttgggta acctggtaac ccaactgggc atgaataaaa 120
gcttgaagg taaactagat gccttgggta acctggtaac ccaactgggc atgaataaaa 180
gcttgaagg taaactagat gccttgggta acctggtaac ccaactgggc atgaataaaa 240
gcttgaagg taaactagat gccttgggta acctggtaac ccaactgggc atgaataaaa 300
cttcacaaca gcaacaacaa caaccttatt ttcagaatgt tgcctagcca agcagaccat 360
acgttctctc abcaatccaa caacaacaac aacaacaaca acaacagcaa cagccctaga 420
aac 423

<210> 19826

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19826

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gatcacatgg agaatataga tcataatgaa gaagacagga gtagaagagg gaatgatggt 120
gttctctagac aaaactgaat tgatgatatt aaactcaaca ttctctcatt taaaggaaaag 180
aatgatccag aggcctactt ggagtgggag atgaatatag agcatgtttt ctcatgcaac 240
aactatgagg aggaacaaaa ggtgaagctt gccgtcacgg agttttccga ctatgttctt 300
gtgtggtgga acaagctaca taaggagaga gcaagatatg aagagccaat gtgtgataca 360
tggatggaga tgaaaaagat catgatgaag cggtatgtgc cggctagtta ctcaagggac 420
ttgaaattca a 431

<210> 19827

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19827

cttagcacag aaggaaaaag tatgtcagtg caaagtatgg actaaaactgc tttcaggaaa 240
aaagttgtaa aaattgatac aggttggaaa agggaatttt ccttccgggc ttggagtcct 300
cccaatttaa ggcagaaccc atccactcca atttctgcag tttaaaactt totetactta 360

<210> 19830

<211> 365
<212> DNA
<213> Glycine max

<400> 19830

agcttgcctc ttgatgaaat ggcataaat gcattaagga totatatagt attacaacaa 60
caaccacaada ctgtcgatgc gtactttgga agataggtta catctcgga ttcataaagt 120
ctgtcgatct ttatttggaa agatttctc cctctccgac ttgggtaatg aaagcatggg 180
aaacaactca agatgaaacg atgaactgtg gtgtgttggg tgcctgtgat ttcaacacat 240
tcgggtgtgt caacttgttc aatcattcta aaaccgaaac ctcttgaacc tttatgtctt 300
atattgtggc atgctatggt gaaatggtta tactataagt ttaatctgaa atcacaagat 360
gcaacctact tgtgaagtat cctaate 387

<210> 19831
<211> 365
<212> DNA
<213> Glycine max

<400> 19831

agcttagtct ggctggatat gaaattctgg gttgaaaatt cttttcttta agaatgttga 60
attttggccc ccactctctt ctggtttcta aggtttctgc agagagatcc actgttagtc 120
tgatgggttt ccttttgttg gtaacccaac cttctctatct ggctgcgctt aatatttttt 180
ccttcatttc aaccttggty aatctgatga tcatgtgtct tgggggttgt cttctcaagg 240
agtatctttg tggcattctc tgtattctct gaatttgaat gttggcctgt gttgctaggt 300
tggggaattt ctcttgata atatctgaa gagtgttttc cagcttgatt ccattctccc 360
tgcca 385

<210> 19832

<211> 400
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19832

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 ttaatatagagg aattagcatt aatactttctt attttcccaac gcacaaagag cactgtcata 240
 atttcactga ataatttttg ctaagagatc tgtgaggcac gccaaagttc cagacacgga 300
 tagaaaaagg ctatttttagg gattgctaag ettatttggg tagaacacat tttataagca 360
 catttaataa gattcatgtg caccaagatc ettcaacttt 400

<210> 19833
 <211> 392
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19833

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 aagagattta attaatTTTT aacaattatg cagacatttt ttaaattgaaa aacttagttg 120
 acatactgca gaatgcatca gagtctctta ctggcagaat tgatcaagca gaagaatcag 180
 tgaacttata aacaggctat ttgaaaatac acagaggaga caaaaggaag aaagaataaa 240
 aaagaatgaa gcatgactac aagatctaga aaatagtctt aacagggcaa atctaggagt 300
 tatttggcctt aaaattattg gccttattgg cctgatgagg tagagagaga gagacggngg 360
 tagaaagttt attcagagga atagtaacaa ag 392

<210> 19834
 <211> 383
 <212> DNA
 <213> Glycine max

 <400> 19834

agcttttggg tctcctgag tttttggata ttaacttttc tttcttttga tgcctctgtg 60

caggttaagaa atgtgtatac ctcttctact gtgaatctgc ctgttgtagc tttatttcat 120
 agaacttagtt attgagccct cagaggatag agggaaagtc ttcctctca tatagaaggg 180
 aaaaggtagc tccgagagtg ggagaatata tttataatc atttctctaa gactacttat 240

<310> 19835
 <311> 336
 <312> DNA
 <313> Glycine max

<400> 19835
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 atcatgtggg ctttttgaaa gtaacaaaca gaaggccagt ctgttgcaag ttgctgctg 120
 aacatcacat tccacctaa gaaaacacaa ggtggattgc atcaggggtg gataccttac 180
 cttagcacag aaggaaaaag tatgtcagt caaagtatgg actaaaactgc tttcaggaaa 240
 aaagttgtaa aaattgatac aggttggaaa agggaatttt ccttccgggc ttggagtctt 300
 cccaatttaa ggcagaacc atccactcca atttctgcag tttaaaactt tctctactta 360
 tttagttgct tctctgagt tcaacc 386

<310> 19836
 <311> 365
 <312> DNA
 <313> Glycine max

<400> 19836
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 attttggccc ccactctctt ctggtttgta aggtttctgc agagagatcc actgttagtc 120
 tgatgggttt ccttttggg gtaacccaac cttctctatc ggctggcttt aatatttttt 180
 ccttcatttc aacottggty aatctgagta ttatgtgtct tggggttget cttctcaagg 240
 agtatctttg tggcattctc tgaatttctt gaatttgaat gttggcctgt gttgctaggt 300
 tggggaattt cctctggata atactctgaa gagtgcttct cagcttgatt ccattctccc 360

tgtea

365

<210> 19837

<211> 404

<212> DNA

<213> Glycine max

<214> 19837

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gttgccctct ctcatactac ggggaggtga gccaacagct ctgatgtata ctttccttta 120
tgactatgca aaaggtagaa aggatttggg gccaaaatat tcttgccctg gaactggatng 180
gactctcttta tttccttgag tggctcgata tttattagaa ggagattgct atctaactgg 240
accaattttt tatacctttt gattcttagg gctgttgatt ggatagaagg gctgctcttc 300
ctgctggcta tcttgggcgc atgctcctat atgcaacgat tcaaacgct tccaagcgaa 360
ctatatggcc tgctaatacc aatgctctct atgcagtagg ctat 404

<210> 19833

<211> 400

<212> DNA

<213> Glycine max

<214> unsure at all n locations

<400> 19833

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cccctttctc ctttcaatcc cgataaacca gtagagccag tgaatcctg aggacctgtt 120
gggccttgaa ttcgaattgg tccaggtcgt ccctaaggtg gacagaagga gtgcaattag 180
tcaatagagg acttagcatt aatacttctc attttcccac gccaaaagag cactgtcata 240
acttcactga ataattttgg ctaagagatc tgtgaggcac gccaaagttc cagacacgga 300
tcagaaaagg ctatttttagg gattgctaag cttattttgga tagaacacat tttataagca 360
catttaataa gattcatgtg caccaagatc cttcaacttt 400

<210> 19839

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 19839

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 agatattta aaaaattttt aagaattatg cagacatttt ttaattttta aatttttttt 120
 taattttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 240
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300
 tatttggcett aaaattattg gccttatttg cctgatgagg tagagagaga gagacggngg 360
 tagaagtttt attcagagga atagtaacaa ag 392

<210> 19840
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 19840
 agcttcttct ctggttgctc tgctaagggt tccatgtgct agaaagaaa agaaagagatt 60
 gaattctcca ttccagtgtc tgcattgtgat gagtatttat cctcccttag atattaagtt 120
 aacaatccca atggagaaga tgtgcgtaaa tgaatcaaaa acttggtatc caaatttcac 180
 gaagatccaa tgggttaaaaa gtctcagatt gtagttttac taaaacagat ttgggtatat 240
 ggggaaaaaa gaaaagctac gacacggagg gaatttctct cagctccgac attgtttctc 300
 atattgcaac gatgggaatc tttggaaaatg agttccagac ttggtgctca catttcacga 360
 cgatctaacg gtttaacgagt ttatgatcgt cattttctga gacagagttc agtgtatgcg 420
 cgaaaaagat agggctcttg gagagga 447

<210> 19841
 <211> 343
 <212> DNA
 <213> Glycine max

<400> 19841
 agcttttggg tcttgctgag tttttggeta ttcaattttt tttcttggtg tgcctctgtg 60
 caggtaagaa atgtgtatc ctcttctact gtgaattctg ctgttctcag ttatttcat 120
 agacttaagt attgagcct cagaggatag aaggaaatc ttccctctca tatagaaggg 180

aaaaggtagc tccgagagtg ggagaatata tttataatac atttctctaa gaggacttat 240

atccataatt tataaacaata ttttgaaaat taaaagagag cagtagaata agcaaaacag 300

ttcagcaatt atacttttc atacttttc atacttttc atacttttc atacttttc atacttttc atacttttc

atctttttt tttttttttt tttttttttt

<200> 19842

<210> 194

<212> DNA

<213> Glycine max

<400> 19842

tctgactcat gacctcagct atcttaagaa ggggtgaatt aatttccccc taaccacott 60

ttgacccott tctaaatgat acgtcccaaa tgtagaagta taagcaacaa tcaattcaat 120

aatgttcttt atacatgga gacaaaatcg actgcataa tataaatgag attagggag 180

agagaaatgc taactcactt tatactattt aggacacttc cctgacctac gtgcaattcc 240

tcagcaaccc acttgaaatt ttccactctc tttgcaagaa tacttttaca cagtctgaac 300

cacatagggg caaccacccc attgtgtcca ggaatactta ccacttaaga gacctccat 360

cccttaatca atctctttga ataa 384

<210> 19843

<211> 386

<212> DNA

<213> Glycine max

<400> 19843

agcttgacat atttaacata cttaggaaat ttttttgtgc ggtgggaatt ctctaattgt 60

atcatgtggg ccttttgaaa gtaacaaata gaaggccagt ctgttgcaag ttgctgctg 120

aacatcacat tccacccata gaaaacata ggtggattgc atcgagggtg gataccctac 180

cttagcacag aaggaaaaag tatgtcagtg caaagtatgg actaaaactgc ttccagaaaa 240

aaagttgtaa aaattgatac aggttggaaa aggggaatttt ccttccgggc ttggagtcct 300

cccattttaa ggcagaaccc atccattcca attctgtcag tttaaaaactt tctctactta 360

tttagttgtc tctctgtagt tcaacc 386

aaagacttgg aggaacttatt gatgaggaca tgaccaagat ctatggcaat gatccacttg 300
 taagacttgg aggaacttatt acatcgtcta tagcaaggaa agccaatgaa gctcttcaac 360
 aatcctatga cctact 376

<210> 19847
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 19847

gctgtaagac attatgcaac attgttttgg atattcaaca tgaacatccc atttcttgac 60
 gttggtacct cccgagattag attgcttctc ctatctctga tggaaagact ggaatcttct 120
 attgaatata atagccttta ttgagtaatt gacccaaaact cataatatta ttcttcatat 180
 ttgggacata gtagacattt gatatgaatt catgtcttcc atctttcaaa taaattaaga 240
 tcttacatta tctttttaca agaactcttag aattatcacc aaatgagaca ttgtcactta 300
 ctgattcacc aagatccacg aacatgcttc tttctacac atatgggttg ttgcaccagt 360
 gtcaacgtat catgtgttgt cttggctacc ttcattacat gcacatgcta gaagcactat 420
 ttcaaaacttc ttggcttttt gctccacat 449

<210> 19848
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19848

agctttgctg gtcttacctt atctcttttt ggtccataag gtcccagaag gcttngaaa 60
 cccctttctc ctttcaatcc cyataaaaca gtagagccag tgaatccttg aggaactggt 120
 gggccttgaa ttccaattgg tccaggtcgt ccttaagggtg gacagaagga gtgcaattag 180
 tcaatagagg acttagcatt aatacttctc attttccac gcacaaagag cactgtcata 240
 acttcaactga ataattttgg ctaagagatc tgtgaggcac gccaaaattc cagacacgga 300
 tcagaaaagg ctatttttag gattgctaag cttatttggg tagaacacat ttatataagca 360
 catttaafaa gattcatgtg caccaagatc cttcaacttt 400

<210> 19849
 <211> 392
 <212> DNA
 <213> Glycine max

agcttcttgc gattgcatca gaggctctta ctggcagaat tgatcaagca gaagaatcag 150
 tgaacttata aacaggttat ttgaaaatac acagaggaga caaaaggaag aaagaataaa 240
 aaagaatgaa gcatgaactac aagatctaga aaatagtctt aacagggcaa atctaggagt 300
 tattggcctt aaaattattg gccttattgg cctgatgagg tagagagaga gagacggngg 360
 tagaaagttt attcagagga atagtaacaa ag 392

<210> 19850
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 19850
 agctattgat aatattctac gtgtcataag agagtcaaaa gtcttaatta caattcctat 60
 cacatacctg tccaaagcac cacaatgttg tctttgggta aactcttgaa atttgaaaat 120
 aaatatttta taacaaatgc taacttgtgc tctaagaaca ttagttgagg aatttaaagt 180
 agaaattatt ttactagaa aacgaaaaat tatgttccca ttatcttatt acgcttttat 240
 gatttaggca ataaatattt ttctctttta attctttaat caatgtctta agtacattac 300
 ttatcaatac ctatattcta tttatgctct agacagtatt cattgtattc gacaaatact 360
 ttttttaatt ttaataaaaa tgtgtgggga tggtagttt 399

<210> 19851
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 19851
 agcttcaacc aattaacatt gtttgaatga caactgtttg atttgaacaa caatcacata 60

gtttgtccac catggtatgc tttatgttcc tattgggttat agctctggta tgccttatgt 120
 tectattggg tatagctttg gtgctagaat gttcaatttg gagtccacaa gaggaggatc 180
 tttatgttcc catggtatgc tttatgttcc tattgggttat agctctggta tgccttatgt 240
 tttatgttcc catggtatgc tttatgttcc tattgggttat agctctggta tgccttatgt 300
 atcaaaacttc aagtcagttg tgcataaaaa 450

<L10> 19852
 <L11> 386
 <L12> DNA
 <L13> Glycine max

<400> 19852
 agcttgacat atttaacata cttaggaact ttttttgtgc ggtgggaatt ctctaattgt 60
 atcatgtggg ccttttgaaa gtaacaaaca gaaggccagt ctgttgcaag ttgctgctg 120
 aacatcacat tccacctaa gaaaacacaa ggtggattgc atcgagggtg gataccttac 180
 cttagcacag aaggaaaaag tatgtcagtg caaagtatgg actaaactgc ttccaggaaa 240
 aaagttgtaa aaattgatac aggttggaaa agggaatttt ccttcccggc ttggagtcct 300
 cccaatttaa ggcagaacc atccactcca atttctgcag tttaaaactt tctctactta 360
 tttagttgtc tctctgagt tcaacc 386

<L10> 19853
 <L11> 365
 <L12> DNA
 <L13> Glycine max

<400> 19853
 agcttagtct ggtcggatat gaaattctgg gttgaaaatt cttttcttta agaattgtga 60
 attttggccc ccactctctt ctggtttcta aggtttctgc agagagatcc actgttagtc 120
 tgatgggttt ccttttctgg gtaacccaac cttctctatc ggtcgcgctt aatattttt 180
 ccttcatttc aaccttgggt aatctganda ttatgtgtct tggggtgtc ctctcaagg 240
 agtatcttgc tggcattctc tgaatttctt gaatttgaat gttggcctgt gtgctagat 300

tggggaattt ctcttgata atactctgaa gagggttttc cagcttgatt ccattctccc 360
 tggca 365

<212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19855

agctttgctg gtcttacctt atctctttt ggtccataag gtcccagaag goctgngaaa 60
 cctctttctc ctctcaatcc cgataaaaca gtagagccag tgaatccttg aggaacctgtt 120
 gpgcttgaa ttccaattgg tccaggtcgt cctaaggtg gacagaagga gtgcaattag 180
 tcaatagagg acctagcatt aatacttctc attttccac gcacaaagag cactgtcata 240
 acttcaactga ataatttttg ctaagagatc tgtgaggcac gccaaagttc cagacacgga 300
 tcagaaaagg ctattttagg gattgctaag cttatttggg tagaacacat tttataagca 360
 catttaataa gattcatgtg caccaagatc cttcaacttt 400

<210> 19855
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19855

agcttgatga aattcaggat agcacagaaa caattcagaa tactgtcaga caaatttaca 60
 aagagattta attaatTTTT aacaattatg cagacatttt ttaaattgaaa aacttagttg 120
 acataactgca gaatgcacga gaggctctta ctggcagaat tgatcaagca gaagaatcag 180
 tgaacttata aacaggctat ttgaaaatac acagaggaga caaaaggaag aaagaataaa 240
 aaagaatgaa gcatgactac aagatctaga aaatagtctt aacagggcaa atctaggagt 300
 tatttgcctt aaaattattg gccttatttg cctgatgagg tagagagaga gagacgngg 360
 tagaaaagttt attcagagga atagtaacaa ag 392

<210> 19856
 <211> 438

<212> DNA
 <213> Glycine max

<400> 19856

ttttttttac gttatttaca tttaatttaa ttttatttaa taatatttaa aatttattat 1
 ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc 2
 ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc 3
 ttgttaaaat tccaatggca agatgttaac ctgtcatata tatatatata aaaccaatcc 300
 taaaactagc aacaaggatg attccacaaa gcattttatac ctaatgcctc taacaacagc 360
 aagatagcca tcaaaaaaca caccaactag ctcaattctg taggctttcg cgtgcgcgat 420
 ctcattacaa tttctctt 438

<210> 19857
 <211> 464
 <212> DNA
 <213> Glycine max

<400> 19857

agcttcccaa gtatttaagt tcttctcaa aactatccta agcaaagttc ccaatgtcct 60
 attaacaact tccatttgc cctcggtttg tgggtgacaa gtagttagaa ataacaatct 120
 actgcccaac ttgccccaca aagtcctcaa aaaatggctt aggaacttag agtccttate 180
 actaacaatg ctctttggca aaccatggag tctcacaatc tctttgaaaa acaaatcagc 240
 cacatgggaa gcacatcaa cttttttaca tggaaataaaa tgagccattt tagataacct 300
 atcaacaacc acaaaaatgg aatctctacc actgcttggt tttggcagcc ccaaaaacaa 360
 atacatggat aatcaatcc aaggatactc cggaattggc aatggagtat acaatgcag 420
 angtgtacc ttagactctg cctttttaca tacaatgcaa tgtt 464

<210> 19858
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 19858

adcttttggg tctcgctgag tttttgcta ttaacttttc tttcttctga tgcctctgtg 60

caggtaagaa atgtgtatac ctcttctact gtgaatctgc ctgttgtagc tttatttcat 120
 agacttagtt attgagccct cagaggatag agggaaagtc ttcctctca tatagaaggg 180
 aaaaacatac ttttgaattg aaagaatata ttataataat atttctctaa aaatacttat 240

<400> 19859

<210> 19859
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 19859

agcttgacat attaacata cttaggaact ttttttgtgc ggtgggaatt ctctaattgt 60
 atcatgtggg ctttttgaaa gtaacaaaca gaaggccagt ctgttgcaag ttgctgctg 120
 aacatcacat tccaccttaa gaaaacacaa ggtggattgc atcaggggtg gataccttac 180
 cttagcacag aaggaaaaag tatgtcagt caaagtatgg actaaactgc tttcaggaaa 240
 aaagttgtaa aaattgatac aggttggaaa agggaatddd ccttcccggc ttggagtctt 300
 cccaatttaa ggcagaacct atccactcca atttctgcag tttaaaactt tctctactta 360
 tttagttgtc tctctgagt tcaacc 386

<210> 19860
 <211> 274
 <212> DNA
 <213> Glycine max

<400> 19860

agctcataat atatogatac gctcgaaatt aaacatogaa tactctctgg aaattcaaatt 60
 ggtcataact ttctacagg atgtccgact gcagctaat acatategat tctctcacia 120
 ctgaacaagg gaagctcttg agaaattcaa acgggtctat ctttacycac gcatgttaga 180
 ttaaggcgca tcatatataa cgaagctcga atttgaacaa cggtagctct cgagaaactc 240
 agatagacat caattttcac actgatgtcc aatt 274

<210> 19861
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 19861

ggtggtttt ggtggtttt ggtggtttt ggtggtttt ggtggtttt ggtggtttt
 ggtggtttt ggtggtttt ggtggtttt ggtggtttt ggtggtttt ggtggtttt 240
 ggtggtttt ggtggtttt ggtggtttt ggtggtttt ggtggtttt ggtggtttt 300
 ggtggtttt ggtggtttt ggtggtttt ggtggtttt ggtggtttt ggtggtttt 360
 ggtggtttt ggtggtttt ggtggtttt ggtggtttt ggtggtttt ggtggtttt 365

<210> 19362
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19362

agcttttgcg gtcttaacctt atctcttttt ggtccataag gtcaccagaag gcctgngaaa 60
 cccctttctc ctttcaatcc cgataaacca gtagagccag tgaatccttg aggacctgtt 120
 gggccttgaa ttccaattgg tccaggtcgt ccctaagggtg gacagaagga gtgcaattag 180
 tcaatagagg acctagcatt aatacttctc attttccac gcacaaagag cactgtcata 240
 acttcaactga ataatttttg ctaagagatc tgtgaggcac gccaaagtcc cagacacgga 300
 tcagaaaagg ctatttttagg gattgctaag cttattttgga tagaacacat ttataagca 360
 catttaataa gattcatgtg caccaagatc cttcaacttt 400

<210> 19863
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19863

agcttgatga aattcagga agcacagaaa caattcagaa tactgtcaga caaatttaca 60

aagagattta attaatTTTT aacaattatg cagacatttt ttaaattgaaa aacttagttg 120
 acatactgca gaatgcacca gagtctctta ctggcagaat tgatcaagca gaagaatcag 180
 taaacttata aacacacata ttaaaatag acaatctca taaaaggaaa aacacacata 4
 acaatctca taaaaggaaa aacacacata ttaaaatag acaatctca taaaaggaaa aacacacata

ttaaaaggaaa aacacacata ttaaaatag acaatctca taaaaggaaa aacacacata 16

<210> 19364
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 19364
 agcttttggg tctcgttgag tttttggcta ttcacttttc tttcttgtga tgcacctgtg 60
 caggtaagaa atgtgtatac ctcttctact gtgaatctgc ctgttgtcag tttatttcat 120
 agacttagtt attgagcct cagaggatag agggaaaagtc ttccctctca tatagaaggg 180
 aaaaggtagc tccgagagtg ggagaatata tttataatac atttctctaa gagtacttat 240
 atccataatt tataaacaaa ttttgaaaat taaaagagag cagtagaata agcaaacacag 300
 ttgaacaatt atatgtttgc atacctatga aatgcaaata tataaagaaa tatatatatc 360
 tgcatttat atgaacagaa tca 383

<210> 19365
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 19365
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 atcatgtggg ctttttgaaa gtaacaaaac gaaggccagt ctgttgcaag tttgctgctg 120
 aacatcacat tccacctaa gaaaacacaa ggtggattgc atcgagggty gataccttac 180
 cttagcacag aaggaaaaag tatgtcagt caaagtatgg actaaactgc tttcaggaaa 240
 aaagttytaa aaattgatac aggttggaaa agggaaatttt ccttccccc ttggagacct 300
 cccaatttaa ggcagaacc atccactcca atttctgcag ttaaaaactt ctctactta 360

tttagttgtc tctcttgagt tcaacc

386

<210> 19866

<211> 314

<212> DNA

<213> Glycine max

atcttcaatt tctcttgagat cctcttgagat atctctgagat tctcttgagat tctcttgagat

cagtcacaatc gtgaagcata agaggagaca acagagagaa ggacagagag tcaacgacct 120

agatttgcat ctctgtctctc ctgcgcgggtg gtgacagcaa cctctctgag attgacgatg 180

ggagcgacct gtgctccggt gttctctgag acgacgacgg cgggtgcctc cttctcttat 240

tgagctcgg gatcggcgct cgacatcttg tggaaaggaga gatggacaca gagagataga 300

gagagagatc cagt 314

<210> 19867

<211> 365

<212> DNA

<213> Glycine max

<400> 19867

agcttagtct ggctggatat gaaattctgg gtgaaaatt cttttcttta agaattgtga 60

atcttgcccc ccactctctt ctggtttgta aggtttctgc agagagatcc actgttagtc 120

tgatgggttt ccttttgagg gtaacccaac cttctatct ggctgcgctt aatatttttt 180

ccttcatttc aaccttggtg aatctgatga ttatgtgtct tgggggttgc cttctcaagg 240

agtatctttg tggcattctc tgtatttct gaatttgaat gttggcctgt gttgctaggt 300

tggggaattt ctctggata atactctgaa gagtgttttc cagcttgatt cttctctccc 360

tgtea 365

<210> 19868

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all 3 locations

<400> 19868

[illegible]

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<210>      19870
<211>      383
<212>      DNA
<213>      Glycine max

<400>      19870

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caggtaagaa  atgtgtatac  ctctttctact  gtgaatctgc  ctgttctcag  tttatttcat  120
agacttagtt  attgagacct  cagaggatag  agggaaaagtc  ttcctctctc  tatagaaggg  180
aaaaggtagc  tccgagagtg  ggagaatata  ttctataatac  attctctctaa  gactacttat  240
atccataatt  ttataaaata  ttttgaaaat  taaaagagag  cactagaata  agcaaaaacg  300

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ttgaacaatt atatgtttgc atacctatga aatgcaaata tataaagaaa tatatatato 360
 tgcattttat atgaacagaa tca 333

<410> 19871

tgtttgacat tatagcagna acctggaatt ttgtgggtta tagctcaact tcaaaggcct 60
 adagaateta cctaccacag agcaacanag taatcgtcag cagggatgtc aaatttcttg 120
 agtcagatag ttgggaactgg aaaaatgata agaggctctga gtttcaggag gagaatgaag 180
 atgttgatga agaaccctac agaggaacca gatcacttcc agacatctac canagggtga 240
 atgttgctgt aatggagcct ganggatatg aagaagctac agctgatcag aaatggagaa 300
 atgcaatgaa agaggagctt ataatgatng aaaaaataa aacatgggag ctggtggaca 360

<210> 19872
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19872

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 acctcaaggt gatggcactc acattttttg ggttctgcac agtttctgaa agcaatttgt 120
 cataattttg ggactgagct tggttcaact gagtagccat ctgcccctac ttatttgta 180
 gactctgaat ggaggtctct gtctcttctg gaaattgcat attctggatg gtcatttgcc 240
 tcaactaactc ttctaaagaa gtttgaggag gacccctagt tgcttggttg ctntgttatg 300
 actgctgctg ttgtattgga ggaggaacat at 332

<210> 19873
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 19873

agcttctgtt ttcaatttca agcgtctcga tattttacgg ggctctatcc gacatccgag 60

ttaaaagtaa tggctcgttg ataattctaa gagcttccct ttccaattac gaaaatctcg 120

atattatccg gacataatc gacataatc gacataatc gacataatc gacataatc gacataatc 180

gacataatc gacataatc gacataatc gacataatc gacataatc gacataatc gacataatc 240

gacataatc gacataatc gacataatc gacataatc gacataatc gacataatc gacataatc 300

gacataatc gacataatc gacataatc gacataatc gacataatc gacataatc gacataatc 360

<210> 19874
<211> 383
<212> DNA
<213> Glycine max

<400> 14374

agctttatta ctattctttt ctctctatta atatatcttg tgttggtaaa tccacacatt 60

taattaaggt actaagttag tcaattaatt aagctcagct taacatctag cagtatatat 120

aaacatgcac gaaaaggaag gatagtttaa atatatatat atattcttgt ggtatttcag 180

taacctacat aaattatcga ctctgttggt taattaataa actctacgtc accagtatgt 240

agaatatata taaaagatat aaacaatgag caaacagcac cagtgggtcta gtggtagaat 300

agtaacctgc cagggtacag acccggttc gattcccggc tgggtgcatat tgtttctaac 360

tttttatcta tgcagttctc tca 383

<210> 19875
<211> 209
<212> DNA
<213> Glycine max

<400> 19375

tatagaaact cagctcatgc tacaacatt tataatagat ctctcaaca gccaaacct 60

ttttcttcac aattattatg aaccttccaa ccattggatc catteraggt tggagggaac 120

atccaaatct gagatggacg agtccctcac aacaacaaca gcctgtcctt cctttctaga 180

atgctgctgg tccaagcaag ccataatgt 209

<210> 19876
<211> 301

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<223>      unsure at all n locations
<400>      19376
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[illegible]

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>S10>      19877
>S11>      309
>S12>      DNA
>S13>      Glycine max
.
>S400>     19877

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acaagattga	cttgccctagt	gagtataatg	taagtgccac	tttcaatgtg	tctgatctat	120
ctctctttga	tgcagatgga	ggagccttgg	atttgaggac	aaatcctttt	caacgagggg	180
gtgatgatga	cataaccaat	ggcaaggacc	atgaagcact	tgaaggctcc	atgaccagag	240
gcagacttaa	acaagcccaa	cacatcatag	agacaaaagc	ggtcatttgt	atagctgtca	300
ttgatgatg						309

<110>	19378
<111>	264
<112>	DNA
<113>	Glycine max

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4123>      unsure at all n locations
4400>      19378

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tgggttaaaa	cattccaaag	aggettcgat	tgggaaatga	caatgccaca	cgaggattgc	60
gaaattcac	tccttaagaa	gtatttgagt	ggaacctatg	cttttgrctg	aaactgacta	120
tggagacgag	atctaagta	gagaataacc	tcagaatcat	tgccaataa	gacaatgtca	180
taaacatada	caagaaccta	cattccaaca	ctagatggag	aatgaaatga	aaacacccag	240

tgattagtct cacaatgggt catg

264

<210> 19379

<211> 350

<212> DNA

<213> Glycine max

aaatgggac atctgtgtga gaagttatga ccatctggat tttttataa atttgggtgg 60

aaaaatncca aacctgggtga gttttattcc acccgattcg gacatctgtg tgaaaagtca 120

ttatcatttg aatntctega gagtttcoga tgtttaattt cgagcgtatc gatatattat 180

aacctgaaa tagacctcag tetgaaagtt atgaccattt gaatttgacy agagctttcg 240

ttgttcaatt tccaatatca ctgtatgtga tggcctcaa tggacattcg agttanatgt 300

atgaccatt tgaattctc aagagcttcc gttgttcaat tetgagcgtc 360

<210> 19380

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19380

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tctgacataa gcttcaacca attaacattg ttgtatgac aactgttgta gttggacagc 120

aatcacacag ttgtccacc atggtatgct ntatgttctt attggttata gttttagtat 180

gctttatggt cctattgggt atagcttttg tgetggaatg ttcaatttgg agtccacaaa 240

aggaggaact ccatatgggt ttggagttct tgetggagat ggtacaagac aagcaagtga 300

aatggagctg gagcttgcag agtatcatgg caagtatata tgaaat 346

<210> 19381

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19381

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 cctctgggag cataattcta agggaagcca ttcttccctaa aacatctatc aactgtatga 120
 ttgtctttgc cacagtaagt acatgaaaat cctgaattcg atgaggttgt gcttgcctga 180
 ctttccataa cactaacaag agcatcacat gtacatttca gattgcctgt a 240

<210> 19882
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 19882
 accttgttta tattactaga agactatgag atgtttccta atagtgcatt agatgatgat 60
 ggttaaattgg ttcacttagc actaatggga gaagcagaac ctgtcacttt cccagaagca 120
 attaaaaagg aagtatggtt agaagctatg agagaagagt tgaaagccat atagaggaac 180
 aagacatgga agttggctag tctaccaaact ggaaaaacag ctataaatgt cacatggggt 240
 ttcaagaaca agctcacacc agataggagt attgctaaac acaaagccag actagtggcg 300
 aagggctgta tgcagaaaga aagctatgat taaaagaag tctttgcact ggt 360

<210> 19883
 <211> 336
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19883

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 agatccttcc acccaagcat aaagacctg gaagtgtaac tttccttgt ttaattggag 120
 aagtcacctg gggaaaggct cttattaaact taggagccaa aattaattta atgccactct 180
 ccatgtgag aaaggtggga gatttggaga tcatgccac tangatgact ntacaattg 240
 ctaaccactc cattaccaga ccatatggag taattgaaga ttgttgggtc aaagtgaac 300
 attttatctt cctggcagac ttgttggtaa tggata 360

<210> 19884
 <211> 410
 <212> DNA
 <213> Glycine max

atggtttaa ggtgagat gttttaaatt ttttggaga gttgtttt tttttttt
 tatgtttgtt gacttcaaaa agcaacagag agatttcaaa agacaa ca attgtcaaat 120
 gctctctaaa aaactatagg tcaaacactt tcaaatcaat tgagtattct tghtaagatct 180
 tcaatttgta ttatcatctc taaaagagag aaattctttct gtacattcta aatactgtgt 240
 tgtgatcaag agattgttta tctctagact tgtgagaatc ctgaacacaa tggagaagaa 300
 tctcaaggty tgttcagaag ttgcaagag tgtacaaaga tagcggaaaa tctcaagtgc 360
 gttgcttgat gacaggacat agacacgaga agtgytcgat caagataaaa 410

<210> 19885
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19885

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 taagacccaa gtgtatacga taaaattgtg acagactcca catactacac atgtaaaaca 120
 ttaacaagcc atcttgattc ctaaacacat gatatgcac ttcattttca aagccacgga 180
 ctgagggtcca tcatctacac caagcttctc aaggctctca taaaaagcat cgggattttt 240
 ctccacacaac tcttccacct tattttattg ctgttcactt atttggcgag cctttaactg 300
 cttctttaagg tataagaatt gtatattctc tatgtgataa cctaaaaggc actttcttga 360
 agcatcatat gatatgcac aaatcatcaca ttctaataag cattantgta agttaaatac 420
 tatttcttga agtttcaatt actttt 446

<210> 19886
 <211> 340
 <212> DNA
 <213> Glycine max

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<223>      unsure at all n locations
<400>      19886
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Agctttgaat ttctttgttc cggaacctt tcttttctca tctgcacca aacccaatct 60

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

gatoaacat ttctaatag acatcatcca aatattatcc 340

19387

311. 310

112> DNA

213. Glycine max

```

1323>      unsure at all n locations

```

. 400 - 19387

actcggatga ttgattgagt cccgtaatat aacgagacgc tcgaaatnga atgtngaagc 60

tctgagccaa ttcaaacgac aataactttt tactcggatg tctgattgag ttccgtcata 120

ratcgagacg ctcgaaattg aatggtgaac ctctgagcca attcanacga cnataactnt 180

ttacccggat gtctgagtga gtcccataat atatcgagac gctcgaaatt gaatgttgaa 240

cctt'gagcc aattcaaacg acaataactt ttactcgga tgctctattc agtgacgtaa 300

tata!cggga 310

<210> 19888

< 11 > 362

DNA

.213> Glycine max

*223> unsure at all n locations

400 19838

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gaagttcgaa aagttagtat aaattattac cgttaaaagt aatcaaatta aatatatatt 120

aaatcacggttt atcccaaaaatt taataaagatg ttacaaatta ttctcatcan accatggtct 130

Qatarattot attittataa tatauugaat, ataattittat, ttoqdaana attadaat'va 240

agtatatttaa agaattttaa aataaatata tatatatata tatatatata ttantttaat 300
 tacatatatg tatagatatn aaatatttta ataaagtgc taaattataa tatacatata 360
 tt 362

<221> unsure at all n locations
 <400> 19889

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 taccatgaga ggacagagca catagatgcy aaactacact toatcagaga tgtgattgaa 120
 totgagaagg tgaaggctga taaggtttta acagaagata acccgctga tatgtttaca 180
 aaatccctct ctagtgtcaa gtccaagcac tgcctggaat tgataaattt tgaggatgac 240
 taaagcacat tggtagaagt gcacccctga atcgcaagat aagcaattgt tgatttggag 300
 tcaaagtgga gatttgtggt gtgtgactca naatcacaaa tggcacaagt gggaagactt 360
 taagaagtgc taccataact aaattcagtt atgataactg aatctgtttt ggcaccanaa 420
 catagctaga atgagtgtgt gtgatatata tatatatata tat 463

<210> 19890
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19890

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 teanatgaca ataaattttt tctcagatgt ctgattgagt ccaataatat aacgagaagc 180
 tegaaattga atgttgaagc tetaagccaa ttcaaacgac aataactttt tactaggatg 240
 totgattgcy tccgtaaca tctcgagacy ctcgaaattg aatggtgaag ctctgagaca 300
 attgaaacga caacaacttt ttaactggat ctctgattga agtccgtaac atatcaagat 360
 gctcgaaaatn gaatgtggaa tctctgagcc aattcacacy acaaatagct tttactcgga 420

tgtctgattg agtcgcgtac atatcgagac gctcgaaatt gaaggtagag ctct

474

<210> 19891

<211> 324

<212> DNA

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<210> 19892

<211> 279

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19892

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<210> 19893

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19893

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attgagtcctc ataatatatc gagacgctcg aaattgaatg ttgaacctct gatccaattc 180
 caacgacaat cactttttac tccgatgtcc gattcagttg ttgaatatat cgggacgctc 240
 gacattcaat gttgaacttc ttagcgaatt caaacgacaa taactttta ttgagatga 300

ttgagatga ttgagatga ttgagatga ttgagatga ttgagatga 360

<210> 19394
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19394

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 gttttactcg gatgtctgat tgagtcccgat catataccga gaagctcgaa attgaatggt 180
 gaagctccga gccaatctaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240
 taatatatcg agacctcga aattgaatgt tgaagctctg agccaattca aacgataata 300
 aacttttact cggatgtctg atagagtcct gtcatatatc gagacgctcg aaatcgaatg 360
 tt 362

<210> 19895
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19895

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 cctacaagct gagaggtact atccgagccc aagtactagc caacttcatt aatgaattcc 120
 atccccacc accatatttc aagtaggaat ggtggacgat gcatgtgtaa aactcttcca 180
 ataggcaagg gattggtgtt ggggttattc tcgaaggacc atggtacaat ccttacattn 240
 tggattcaaa gccacatgca attaggccga atacdaagaa ctctttgcac gtttaaggt 300
 ttccaaacag gttgatgtc aaaggttcgg gtgtcgaagg gactccaaga tccctgttga 360

gtatatcaac

370

<210> 19896

<211> 412

<212> DNA

<213> unsure at all n locations

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gcttctttaag tgcagatgtc caaatctttg atgcatatatt ctgaattcac tttcttttggg 180
ggatagacat gtggaggagt agctgggttc ttggggtgtc cataagtaac aattgtcctt 240
tgatctgtctg ccttcattta gaatttcact cttctcattt gtcaccaagc attctgaact 300
tgtgaagttt acattgaacc cttcatcaca cagctgactg atgctgaccc aagttgcagt 360
cagtcacctc accagcagta ctttgttcag actangaagt ccacatgaa ct 412

<210> 19897

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19897

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cttggttagac aagtggcctc agatatctta agaagggggg ttgaattaag atattacaaa 120
ctattttccc aattaaaatt ctactttgat tntaatgcaa gttcaaagtt cctttaaaga 180
ttaatttcta aatgatgatt caaaataacc aaactgaatg taaaagttaa gcaacaataa 240
ataaaagagt ttaaggggaag agagagtgcg aactcagttt tatactgggt cggccacacc 300
cttgtgccta cgtccagtcg ccaagcaacc caettgagag ttccactaac ttgcanaaac 360
cctttacaag ttctgaacca cac 383

<210> 19898

<211> 439

<212> DNA

<213> Glycine max

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 gactcaaccc gctagcccat attgactcac ccgcctaac ccaccaactt agcgggagag 180
 gttggctatg ccggcaatcc caccatcata caccatata caccataga ccttttctct 240
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 ccttttctct ccttttctct ccttttctct ccttttctct ccttttctct ccttttctct 360
 catttgggat aactttatag aataagatga 480

<210> 19901
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 19901
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 agtgaatagt caagaccatt tgaatttctg gagaacttgc atcggttgaat ttcgagcgtg 120
 tccataaatt atgcgcctga atcggaacct catgttaaca gttattgacc attggaattt 180
 ctcgagagct tccgttctgc aatgtcgagc gtctcgatgt attgtgcgac tgaatcggac 240
 ctcgagtgga aaagtatatga ccatttgaga tctcaagaa gttacgttct tgaatatcga 300
 gcgtctcgat atattgtgcg cctgaatcgg acctccgagt gaatagttat gaccattaga 360
 atttc 365

<210> 19902
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 19902
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 caggagaaaa agtcttttct tagtcgattc cttcttttct agtaaatccc caggcaacga 180
 gtttttctct gttctctcta atgttggcta atgaatccc atttggctta aaaaccatt 240
 tacaaccaag ggccttgcgc cta 263

tgtttgtatt gttatcacta tcaaattctc caatatagat tgtgaacctt tctttgtttt 60
 tccaatatga aaaatcatca acccagaatg agtcaacatt attntgttct ctaatgccag 120
 gtctcataag ataacaatac aaacaacatg tagcatcttt tgatatatta tattccaacc 180
 agatattc agatcaact tctagagctc ttgtttccac atatgaatat att 410
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<210> 19906
 <211> 340
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19906

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 cgatatatta tgacccccaa tcggacatct atgtgaaaac gtatgaccat tcgaatatct 180
 cgagagcggt cgctgttcaa ttccgagcgt ctagatgagt tatgtctctg aatcgaacat 240
 tcgagtgaaa acttatgacc attcgatttt ctcgagagct tccgttgttc aatttcaagc 300
 gtctcgatat attattgttc ccgaatcgga cactctcgaa 340

<210> 19907
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19907

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 cgatatatta tgtcccagaa tcggacatcc gagtgaaata tatgaacatt cgaatntctc 180
 gagagcttcc gttgttcaat ttccgagcgt tcgatatatt atgtcccaga atcggacatt 240
 cgagtgaat ttatgaccat tcgaattctc cgagagcttc cattgttcaa ttccgagcgt 300

ctagatgagt tatgtctccg aattggatat ctgcgtgaaa agttatgacc attcgaattt 360
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<200> 19909

<201>

<202>

<203>

<204> 19909 19909 19909 19909 19909 19909 19909 19909 19909 19909

<205>

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atcttatata caagatgctg cgaccttcta aaatctggag cccatgaatg tatgtgggcc 180
acattcaagt ctgataaact ttttgacgag ccagagaatg ctgctgtaaa caccctgcaa 240
ataaatacag tctacacctt aactccatac atagcttgca tcaaaaacct 290

<210> 19909

<211> 400

<212> DNA

<213> Glycine max

<400> 19909

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ggggagaata atcacattct cctctgacga cactttctga tactcatcac tctttctgtt 180
tgtrtatgtc gaggggaatgt cgacgatgaa ttccttgact agactttcat atcaatctcc 240
caacttggtg acagtattca acagtcacgc aaccttgatg aggacatgat ctctcttgca 300
tccacagcat ctcttaccag agctctgtgt aatgcaagtc tgcgctgata taaaaatta 360
cacctttcaa catctgcaat ggagtggaaat gaaatgttgt 400

<210> 19910

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19910

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 tgttcggaga cccatgaatg tcattgacct tcaactgtca tgtgtctctc accttcagat 360

<210> 19913
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 19913
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 tttctggctt cagcaagagt catgtctcca agggctccac cactggcaga atctatcata 180
 cttctctcca tttactgag tcttcataa aaatgttga caagaagctg ttctgaaatc 240
 tcatgggtgat ggcaactggc acatagcttc ttaaactgat cccagtaact atacaggtc 300
 tctccactga gttgtcta atctgacata tcaactctga tggctgagge cctggaagca 360
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<210> 19914
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 19914
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 agtgaaatac taactaaaaa aagaaactta ttaaatttcg tatgaataat gtacaaatct 180
 aaaaataatt gataaacaaa atttatattga attcaagtcg ttaaagcaca aagtctataa 240
 aaaaaataaa aatagcataa ttttaaaaaa tgtatggatt agagatgatt tacactaata 300
 tagcctaaca aaaattatta ttagttaaat taacaatttc taatccacat ttttaatat 360
 ataattatat tatatatgtt taaaaaaaat atatgcacaa taatgtcacc ttagttact 420
 caagccatat cttatataat a 441

<210> 19915
 <211> 243
 <212> DNA
 <213> Glycine max

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 aatatttaccg ggactcaatc agacatccga gtaaaaagtt ttgtctgtta gaacttgctc 180
 agagcttcca taatcaatat ccagccgttc catatattac tggactcaat cctacaaccg 240
 tgt 243

<210> 19916
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19916

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 tcagatccta caatttgagc tcctatggag caaaacaatg tgtgtctcct agagagggca 180
 tcagctacca catttgtttt tccctttttg tatttgataa catatggaaa ttgctctatg 240
 tactctacc ctttctcatg cctcttggtt aacttgcttt gccctctaatt gtaacttaagt 300
 gatgatgat cactatgaat gacaaattcc ttggaaacaa ggtaatgttc ccaagtttgg 360
 agggctctta ttaaggcata aagctc 386

<210> 19917
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19917

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gaagatgtcc agattgcaac tattggctac aaaattcgaa aatctgaaga tgaaggagga 130
agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcaactgcctt 240
gaaagagagt atgacagatg aaagatctgt gagaagaatg ctgagatcct tccctaagag 3

caacacacac interrupted 10 11

<210> 19918
<211> 416
<212> DNA
<213> Glycine max

<400> 19918
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ttttgttgtc tatgatattg catacacctc cttcagagtg aagtgtgtag cctctctcca 120
tcatttgccc aatgcttaga agattgtctt ttaggctggg aactagtaag acatcatgga 180
tgagtcgggt acctttatct gtctccacca tgatagtgcc ttgccccttt gattcaacca 240
cacttgtatt tcccagttga actatgactt tgacagactc atcaatactt ttaaaaatag 300
tcttatcctt ggccatgtga ttgctacac cactatccaa gtaccagttt cctccccttt 360
cttttatoga gtcttgagtg gcgtagaacg tacattgttc ttgatcatgc tctctc 416

<210> 19919
<211> 410
<212> DNA
<213> Glycine max

<400> 19919
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tgtgccatgt tctcagaatg tgcattgatc gaatgctcag aatcagaatg ctcaatgaaa 120
ttctgatacc aatgccagat gtcttacagg atgtcacgac atcaagcttc agaactatga 180
gatttatctc gagtgtatga acagattaaa catgtctata acacacgata attgctaacc 240
cagttcgggt caacctcacc tacatctggg ggcctaccaag ccaggaggga aatcactaa 300
aatagtgtta gtccaaggc taacagccac tatttacaac ctctctcact aacctactac 360

<400> 19922

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ttcctttttaa attcatttaa ttcatcatgc atagccaata accaatgctc atcatgcaat 120

ttcctttttaa attcatttaa ttcatcatgc atagccaata accaatgctc atcatgcaat 180

ttcctttttaa attcatttaa ttcatcatgc atagccaata accaatgctc atcatgcaat 240

ttcctttttaa attcatttaa ttcatcatgc atagccaata accaatgctc atcatgcaat 300

ttgcttctgtt caagatctct aacgatggg caacatctaa ggg 360

<410> 19923

<411> 379

<412> DNA

<413> Glycine max

<400> 19923

ggaaaccaa gccaatcaga atgctagacg atttatagat gtgaatatag gtaacaatgg 60

cggtaatgac ggaccgaggg agaaccgggt tgagggagta aagctcaatg ttcctccctt 120

caaaggtaga agtgatccag atgctacct ggactgggaa atgaagactg agcacatatt 180

ttcctgcaat gactacactg atgctcagaa agtcaagcta gcagcagctg aattctccga 240

ctatgccctt gtttggtggc ataaatacca aagagaaatg ttgagagagg aacggcgaga 300

ggttagatata tggactgaga tgaagggt gatgagaaaa aggtatgtgc ccaatatcta 360

taacagaacc atgctgacag 379

<410> 19924

<411> 236

<412> DNA

<413> Glycine max

<422> unsure at all n locations

<400> 19924

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ttcagacatg atatacaac catgttgag gaatcatctc aatctgagat agacatagtn 120

ctccactaca acatcagctt gtcctactt tccaaaatgc taactgttca agcaagccat 180

atgttccctc tcaaatgcaa caactacatg tgcattcaca acaaaagaaa ctatgca 240

caacatcaca tgggggtaga ttgggtgactc tttactgtct tttcctcctt ttttgagaga 60
 ctcaaacatt ttgcaccaa cgtcctccaa gaagaatttc ggcagaacgg accttccaa 120
 tctaaagctc caaacttca tctcaaaa caatccatg accattatct tcaagcccat 180
 tctgtggg 427

<210> 19928
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 19928
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 agacaaacgg attttatgaa ggggaggcac attcttcctg gtgttttgat tgccaatgag 180
 gttatagctg aggctaaggc tagaaataaa ccttgcctgg tcttcaaaga ggattttgaa 240
 aaggcgtatg attcggtttc ttgtggtttt ctgactaca tgttgatgag gatgggcttt 300
 tgtgaaagat ggaggaaatg gattaatgtt ttctgtcca ctgcaacct atccatttta 360
 attaatggaa gtctgttttt ggagatgcca ctcaacataa tgttagaacc ttaaaatgt 419

<210> 19929
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 19929
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 attccataaa gatggttgcc ttgagatcat tgatcggaaa aaggacatag ttaactcac 120
 acatggagaa tatgtgctc tgggaacagt atcaatgtcg gcttggggaa cgcactcct 180
 ttaatatata ataataatat taatlaaac aggttgaggg cgtgtgttct tgcctccctt 240

tgtagacaat atcattgtgc atgctgaccc ttttcacagc tactgtgtgg cactccttgt 330
 atctctctcat tctgcttcgg agcattgtgc t 331

19931 19931
 19931 19931

ttatgatgtt caacagagac tatgttgaca taattgaaga ttgttcttgt tgcctctaatt 60
 gcttgatcgt tatgaattgt aatctcacat tagagtcttc tatcttttga gtataaattat 120
 gactcatctt ttgagcgcac aaattaaatn taaatatgta tctgacatag ttgcatttaa 180
 tcttatttta agtaagttat ctatctttgt acgtttcttt aatgtagtgg cactgatgacc 240
 aagttatcta tctttaatta gtgttactta gtttataatt aattattact taagccacat 300
 aggcacaaatc taattctata tattaatttt aggtcaagat caatcttatt ttaagtaact 360
 taactatctt tctatgtgtc taatgtgga 389

<210> 19931
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19931

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 acattatata cacatacaca tagagtatga ttattatgtg aatgacaatc ttatatgaga 180
 atgagaatag ttaattttcaa tcatgtgatt gaaatgaaag atttagatta aaaatatttt 240
 aaattcacaat tanaacctca tgaatcaca aaatctctaa gaaattaatc aaatatctaa 300
 tttatcacgt ccaaatatat cttaacctca tcatcaccat tatgacatc agtccaccac 360
 cctgcacatg accgttgtat gtcaccacca acatgattcc gacagtggca gcaacaacga 420
 ttatagtcac tgtg 484

<210> 19932
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

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 tttccttcaa atagtcttgc attttatcat tgyaagaagc attatctaga gttaatgaaa 240
 a'actttctg c'aaatcccc cattcttcca aaaaaccata tataacttta gccttctcac 300
 gcccagagtg tggaggagga aaatgagaaa aattaagcat tttactatc aacttccaat 360
 t'gcatcaac ataattgtgc gttaatgaaa tataaccctc agaagtacaa gatgtccaca 420
 c'atc 484

<210> 19933
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19933

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 tctcaaggac ttggtcanga tgtctgcaag ctggttggtg gacttaataa attcagtact 180
 gatttctttg gactgagct tttccagaac aaaatggcaa t'aaatctcta taggtttagt 240
 tctctcatga aatacagaat tagaagcga gtgaagagct gcctgattat cacaatacaa 300
 cttcatctgc tgaatatcac aaaattttta ttcttgaagt tgtttaatcc acaccaatc 360
 acaagtaaca agagccatag ctctatatto tgettctaca cttgatcagg caacaacaca 420
 c 481

<210> 19934
 <211> 444
 <212> DNA
 <213> Glycine max

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<223>      unsure at all n locations
<400>      19934
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[illegible]

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-210>      19435
-211>      405
-212>      DNA
-213>      Glycine max

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<400> 19435

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acaacggaag	ctcttgagaa	attcaaatgg	tcataacttt	tcacacggat	gtccgattca	180
ggagcatcac	atatagagac	gtcggaaatt	caaatgggtc	taacttttca	cactgatgtt	240
cgatacaagg	ttataatata	ttgatacgc	cggagattaaa	cattggaaaac	tctctagaaa	300
ttcaaatggc	cataactttt	cacactgatg	tccgatttaa	ggcgcataata	tgtcgagagg	360
ctcgagattg	aataacagaa	gctcttgaga	aattcaacat	ggcat		405

02107	19936
02110	291
02112	DNA
02113	Glycine max

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:0234      unsure at all n locations
:4004      19436

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g'acacat'at' utgacgcgc acaatcggac atnecactta aagttatua ceatctgaat'	60
tctcaagag' ctt'ccgttgt' tcaattctga cggctctctt atgtgattg' tctgaatcgg'	120

acatgcgtgt gaaaaagtat gaccatttgt atttctcaag agcttccgat tgacaatttc 180
aagcctctcg acatattatg cgcctgaatc ggacatccgt gtgaaaagtt atgaccattt 240
gtatctctca agagcttctt atcttctat tggagctctt cgacatatta 270

<210> DNA
<211> Glycine max

<400> 19937

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ctctaaaaag aataaaaaaa tatgtattag tgatgttggg tatgttagag taagataagg 180
atggaagacc cctttcttgg ccattctccc atgagagaat atagtctctc accaactcag 240
tgagtgggtgc tacaagtata gaaaaatatg ggataaacct ttctgtaaaag tttgttaaga 300
tattgaagcc cctaatttcc cttatacatg gcggagtaag ctactcaaga atgaccttta 360
ttctcttagg gtccatggga agccttggat cactatttaa aaagttaagg aaagtaatgg 420
aataaaatat accttttttc tttatttcca tgttgattat tctacaa 480

<210> 19938
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19938

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aatagatttt gaaataatgt gtgatgcaag tgattatgca gtaggatcag ttctgggtca 120
aaggaaaaat aaaatttttc atgtcataca ctatgaaagc aagggttttaa ataaagctca 180
aataaattat gccacaactg agaaataatt gcttgcaata gtatatgctt tggaaaaatt 240
tagatcttat ttgataggat ctaaaattat ggtttttact gatcatgttg ctataagtta 300
tctgttagtt aaagctgatt ctaaaaccca acctatccga tggattctgt tgttgcaagg 360
atttgactta aagatcaagg ataaaaaagg aagtgaaaat tatgtagttg atcatctgtc 420

taggctgacc aatgatgagg tgatcacaca agaacctg

458

<210> 19939

<211> 424

<212> DNA

<213> Glycine max

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ttgaggtatt caaggagttg agtctaatac tgcaaagaga gagagatagt gtcacatga 180
gaaacacgag tgaccatggc agagagtttg aaaacagcaa gtttactgaa ttctgcaagt 240
ctgaaggcat cactcatgag ttctctgcag ctcttacacc acaacaaaat ggcatagttg 300
aaaggaagaa caggactctg catgaagctg ctacggtoat gcttcatgct caagaacttg 360
ctataatct ctgggctgaa gccatgaaca cagcatgcta catgcacaac agagtctcac 420
ttat 424

<210> 19940

<211> 398

<212> DNA

<213> Glycine max

<400> 19940

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ctcaaattcag acatcggagc gaaatgttat gaccattcga agttgtcgag agcttccgtt 180
tttcaatttc gagcgtctac atgagttatg tcaccgaatc atgacatctg agtgaaatgt 240
tatgaccatt ccaatgggtc gagagcttcc gctgttcaat ctcgagcgtc tagatgagct 300
atgtaccoga atcggacata cgcgttaaaa gctgtgacca tgetgatatg gcgagagctg 360
ggcggtttca atcacgagcg tctcgtatta ttatgtcc 398

<210> 19941

<211> 339

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 19941

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aagcgaattg attggctcttc atgctcttga aagcgaattg gaaaatgatt aactctttgg 120

aaatctcttc aatgagggtt aatctcttga atgctcttga aaaaatgatt aactctttgg

caagaacatt ttatattggc tcatatgaaa aaggatgtg 339

<210> 19942
<211> 243
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19942

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ttanctattc tacatatgat aaggaattgt atgccttatt aagagctttg cagacttggc 120

agtataatct ctgcccgaag gaatttagta ttcacagtga tcataagtct ttgaatactt 180

gaaggacaag gaaagttgac aagtgcctgc cnatatgtgg aattcttgac aattccccat 240

gtg 243

<210> 19943
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19943

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ttctctttt gaagttgttt atggttttaa cccactaact cctcttgatc ttttgcctat 120

gcctaattgtt tctgttttta agcataaaga aagtcaagca caggcggact atgtgaagaa 180

gcttcatyag agagtcaaag atcanattga gaggaaaaaat aaaagctatg ctaaaacaagc 240

caacaaaggg agaaagaagg gtgtcttcca acccggagat tngtnttggg tgcacatgaa 300

aaaagaaaagg tttccggaac anaggaaaac aaagcttcaa ccaaggggag atggacatt 360

tcaagtgcctt ganagaatca atgacaatgc ttacanagtt gagctgcccg gtgagtataa 420
 tgttagttcc accttcaatg tctctgatnn tatctctttt ga 462

<200> 19945
 <201> 467
 <202> DNA
 <203> Glycine max

<204> unsure at all n locations
 <400> 19945

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 gogatattca caactttata acataattag tagtatctaa caacttatat ttgttatata 180
 taattttaaa aataattata ggaattcatt aatgtacacc taactatttt tttagaagta 240
 gtaactaaat tacaataaga ttcttaaaat acatcccagc cctaagttgt taagattatg 300
 ttttaataaga tattttagga gtctataagt tattttgact aaagtaaact tgtctaatac 360
 atgagtttan tttttataaa ctaccttaag agaacttatt ttgataagtt acttaaaactt 420
 ataaaagata agctaactta aaagtttctt ttcac 455

<210> 19945
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19945

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 atgaaagatg gtctgaatac ccgtcatgat ctatctgaca tgggtatagg atgcagctg 420
 catccaaagt ctgggggaa aatataactg cctccaaactt gtcatac 467

<213> Glycine max

<223> unsure at all n locations

<400> 19948

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acgttttca gtttctggtt cgaagtggtt cagttttat tctgatttcc cgtggtttcc 120

actaaaaagt tatggctcgtt tglattggct cagagcttca actctcaatt tcaagcgtct 300

tgatatgtta cgggactcaa tcagacatcc gagtaaaaat gtattgtcag tntgataggc 360

tcagagggtc aactttcaat gtctagcgtc tcgatatgtt acgggactca atca 414

<210> 19949

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19949

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tgataaat ttgtatatt ataataacta ccttgaaaat cgtataata acgatatttt 180

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tataccacta ttttcataat gaatgatatt atgggtgatca gtgttatgaa caattttaat 300

aaatgtaaat gttaatctct tcgccttaac ttcaataact tacaattnt ataaatgtca 360

ttgttttatt tgaataatat aacatttgaa ttaacataaa ggtcaaagga tgatcgtcta 420

tttagcttaa t 431

<210> 19950

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19950

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acaaaacctc acaaaaaggta gcaaaagtct tgaagaatac cataaagaga tgataatgac	130
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 aaaagttatt gtctgttgaa ttgatacga gcttccggtt tcaatttggg gcacccctcg 300
 ataaattaca aaactctgtc gggcatccga gtaaaaagtt attgttgttt gaattttcta 360

<210> 19953
 <211> 199
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19953

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 tctatcttac ttntactta agttatgaat tcccttanag acaatcttct tanatattaa 180
 ttcnatgaa gcaacttgaa tatgaatata aagcaataat aaataaagga gattaaggga 240
 agagaaaatg caaactcagt tntatactgg gtcggccaca cctttgtgoc tacgtccagt 300
 cccaagcaa ccgccttgag agttccacta acttggaat tcttntaca agttctaaac 360
 acacaaggac aacccttctt ttgtggtaga gattctnaca acaagagact cacagtctct 420
 taatccctta gagaatgaga agaagaagag gaacanatct ctcttgaaag agat 474

<210> 19954
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19954

tcagcacttc tgtagggttt cagggccttc catcagctct gtattaatct gccatatact 60
 cagccgggat taggcctcat gagcttcttc atattcagct gcttactgga tttagcttgg 120
 gtggcttccc tttagatac ttgggtgttc cctttttatc atctagatta aatgtatata 180
 actatgctcc ctgtcttccc aagattactg gcctgattca gggatggagc aggaagcttc 240
 tatcttatgc agctaagcta gaggatca gagcagttat tcaaggaatt gtgaattctc 300

ggatggggat ttttctttt cctcaatctg ttctggaccg gatcaaggct tcatgccgta 360
 attntctgtg gggcaaagcg gatattggca aanacaagcc cttgggttgc tggtcagtag 420
 ttgtttctcc gaaaa 435

<23> unsure at all n locations
 <400> 19956

agcttgagca cctccttctt tacctcttcc ttcattgttg ggttcagct tctctgaagt 60
 tctgggactg gctgttagtc ttcttccttc attatcttgc gcctgcagta agcagggcta 120
 atacctttaa gatccgatat atgccaccca attgcttctt tgtgtttctt cagaatttct 180
 atcaacttgc ttcttccttc ggatgtgagt gtattgctga tcaccataag cttactctca 240
 tctctcttct ngaacacatg ctccagatgg gtgggaaata tcttcaatc tacctcttcc 300
 ttcttagatg gagtcttgc ctctagttcc tcanaactgg cctctctctc anggatgtta 360
 tctgttcgat ccaagtcttc taagcaagcc ttgagatctt cttcttcttc attgggttaag 420
 caatctatcg ccttcacct 440

<210> 19956
 <211> 427
 <212> DNA
 <213> Glycine max

<23> unsure at all n locations
 <400> 19956

tgtcatactt tgtccaanaa agagaaaatc agttttttgct tgtgtctgcg ccggggttaa 60
 gtcctacaag gatactcttc aaatattaag agccttgtgc agttgaagaa gcttaacctt 120
 gtgggggttaa agtctcatga ttgtcacatg ttgatgcaac aattgtttgc cgtggccata 180
 cgagacattt tgcctaacaa agtcaggtta gccataaact gcctgtgctt tttcttcaat 240
 gccatgtgta gcaaagtctt tgatctgtc aagtttgatg acctggaaaa caaggctaca 300
 attatactgt gccagtggga gatgatttt cctctctctc tctttgacat catggtccac 360
 ttaattgttt aactggtcag agaaaatcaaa tgttgtgtgc ctgtatatct gtgctaatg 420

427

SECRET

<211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19959

gaagataaat ggccgcggaa tggagaagga agagagagag gagacgcgc ttcacatgaga 240
 agataagctct agaagaagct caccaccata cgaggccatg gataagagct tggaggagga 300
 aagagatgaa tgaaggagg tggagagaag agcagatat tctgtgctca gatagagctc 360
 ccagatctaa agttaatat canatgatca 390

<210> 19960
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 19960

taagaggcca tggagattga gatggagaca gacacgtgtg gtttatagat ttcacctgta 60
 ttagttttct caaacattat ctttgcccc aattacatga ttagatagcc ttgtgacaat 120
 caaggaggta ccattacata aaccttcaat ttgatctaaa ttccttaaaa gcatcattgg 180
 tgtgccaatc ttcaatttga ttttatgatt tgggaaggccg atgttccaag agaatttgaa 240
 aattcaaggg ttaaagcctc gaatatttgg tcttcatttg attataaatt gtcaaaagaa 300
 tctaagctta gatattgttt ttcaactata acataattgt aaacaattta actaatttga 360
 ttgtttcaaa tgaagatat ttgtgtaact ttttcaaag gtagatgaga ttacatcgat 420
 ttaaagataa tacatatcc 439

<210> 19961
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19961

agctnatagc caattcanac gacanataac ttttacgcga atgtctgatt gagtcttgta 60

atataacgag aagctcgaaa ttgaatgttg aacctctgag ccaattcaaa cgacaataac 120

cttttacacg gatgtctgat tgagtcctcg catatatcga gacgctcgaa attgaaagtt 180

<210> 19962

<211> 466

<212> DNA

<213> Glycine max

<400> 19962

taaatattca atttcgagcg tctcgatata ttacgagtc cttcaaaca tccgagaaaa 60

aagttattgt cgtttgaatt tgctcagagg ttcaacattc aatttcgagc gtctcgttat 120

attacaggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggctcagag 180

cttcaacatt caatttcgag cgtctcgata tatgacagga cgcaatcaga catccttgta 240

aaaagttatt gtcgtttgaa ttagctcaga ggttctacat tcaatttcga gcgtctcatt 300

atattacagg actcaatgag acatctgact aaaacgttat tgcgtttga attggctcag 360

agcttcaaca ttcaatttcg agcgtctcga tatatgacat gactcaatca gacatccgag 420

taataagtta ttgctgtttg aattggctca gaggttcaac attcaa 466

<210> 19963

<211> 467

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19963

agctnagatt gctctattca atggagatga caagaatata ttcagactga tcaacacttg 60

cacagtgggc aaggatgcgt gggagatcct gaaaaccact catgaaggaa cctccaaggt 120

aaagatgtcc agactgcaac tatgggctac aaaattcgaa aatctgaaga tgaaggagga 180

agaatgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gaactgcctt 240

gngagagaag atgacagatg aaaagctcgt gagaaagatc ctcagatcct tgcctaagag 300

atttgacatg anagtcactg caatagagga ggcccaagac atttgcaaca tgagagtgga 360
 tgaactcatt gggtcccttc aaacctttga gctaggactc tcggata 407

<209> 19965

<210> unsure at all n locations
 <400> 19965

nttgcaagtt ggaatcattt atcctatctc cgacttccaa ttggtgagtc ccgtccaggt 60
 agttacgaag aaaaaccggcc tcgcctgatg aaaatatgag aaggatgagt tgattccctac 120
 tcgggtgtag aacagttgga gagtatgcaa cgactatagg aggotgaacc aggttaccaa 180
 aaaggaccat ttccactgt ctttcattga ccagatgctt gaaagcctgg ccggtaaacc 240
 tcaactactgt ttccctgatg gttttctgg ttatatgcaa atcactattg cttctgagga 300
 tcaggaaaag accacattca ctttcccttc cggcactttt gcctatagga ggatgccttt 360
 cgacttgtgc aatgcccctg gtaccttcca gcagtgcctg attatgtatt ttagtgattt 420
 tttagaaaat tgcatagagg tgttcctgga tgatttcact a 461

<210> 19965
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19965

ntttgaaaga atggaggaga ggaagaaaat agaatagcac tcgtctttgc ccgctgaaat 60
 tttctggaca gagcatatgt tgaacaaaaa ctcttagaaa gatattgaga aattggttgt 120
 tttaaattca tgcctatgac acatatttat agccatttga ttgctcctga agaagccatg 180
 ttaaaagtty tgacttttgg caattctctc aaaaccagtt agttaattta aaaagttgtg 240
 acctgacaat tttttcaaaa ccagtcactt taaaagtigt gactcttgac aatttcttca 300
 aaatcagtea ctggtaatcg attaccataa tgggtgaate gattacacag tttattttat 360
 caaaagttyt gactcttcat gttgaatttt gaaatccaac gctcaaaaaa cattatataat 420
 ctattacaaa tat 433

<210> 19966
 <211> 449
 <212> DNA
 <213> Glycine max

tttcttcttctt tttcttcttctt tttcttcttctt tttcttcttctt tttcttcttctt
 ttaacttaac tggtaacatag ttaacttaac agtattgtaac tataactaac ttacagttagc 120
 tgcctttgttt atgtaataca taacaataaa aataagcagc tttgtctatg tcatatatgt 180
 aaaataaatt aataataaaa tttctattag tacctataac aagtgtggcg ttctctatga 240
 tttttataat tatgatttga tgtatagaat ttcatatata gaatgggttat gaaaataata 300
 tacatggaga gaaagtaatt ttaattgaat ataattagaa taaattatta aaatattaga 360
 catatatact tggtttcaaa tttattttta aaataaaaata atttggtattt atatacacac 420
 atgtacgtgc accagaaaca aattaatat 449

<210> 19967
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 19967
 taggagaatg aaacccgaaa tgtcactaag aatcaaggta tgatgcgaaa aagcagttca 60
 acgctgggttt cttggcggtta tctcgatacc ctgagtgggt ggccaacatt gtgtcggtcc 120
 etaagaagga tgggaaggta tgaatatgtg tggattatcg ggactaaat caagccagtc 180
 ccaaagacaa tttccctcta cggaacatcg atgtcctcgt agataacacg accaattttg 240
 ctttgtttct catcatggac ggtttctcag gctacaatca aataaaaaatg gtactagagg 300
 atatggaaaa gacpatgttc gtcacctgt ggggaacgct ctgctataag gtgatgtctt 360
 ttgggctaaa aaagctggg gcaacctatc aacgggctat ggttgctttg ttccacgaca 420
 tgatgcaccg agagatcgaa gtct 444

<210> 19968
 <211> 416
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19968

atctatattt attttttgat agnngatttg caggagatgt tpatatataa aaaaattacta 60
tctttttt tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 240
tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 300
gtaagcatat agatacaagg tatcatttca ttagagagtg cattgccaag aaagaagtag 360
aattgactca tctgaagact caagatcaag ttgtggatat tttcaccagg cctctc 416

<110> 19969

<111> 461

<112> DNA

<113> Glycine max

<223> unsure at all n locations

<400> 19969

tatatagaag gttcatttct aattttctct caattgcac actgctcaat gagctggtga 60
agaaaaatgt ggcatttacc tgaggtyaaa aacaagagca agcctttgct ttgctcaaag 120
aaaagcttac taaggcaact gttctagctc ttcttgactt ttctaaaact tttaagctag 180
aatgtgatgc ctctggagtg ggagtttag ttgtattgtt acaaggtggg caccctattg 240
cttattttag tgaaaaactt catagtgcc cctcaacta ccccaactat gataaagagc 300
tttatgcctt aataagagcc cctcaaaact gggaacatct ccttggttngc aaggaatntg 360
tcattcatag tgatcaccaa tcaactaagt acattagagg gaaaagcaag ttaaacaaaa 420
ggcatgcaaa atgggtagag tacctagagc aatctccata t 461

<110> 19970

<111> 414

<112> DNA

<113> Glycine max

<400> 19970

gtgaatgctc tattcaatgg agtggacaag aatattttct tactgatcaa cacatgcaca 60

atggccaatg atgcatggga gatcctgaaa accactcatg accgaacott caaagtgaat 120
atgtocaaat agcaactatt ggccacaaaa accgaaaatc tgaatatgaa ggaggaacag 180
tgtattcatg actctcacat gaacattctt gaaaatgcca atgcttgcac tcccttggga 240
tgccttgcac tcccttggga tgccttgcac tcccttggga tgccttgcac tcccttggga 300
tgccttgcac tcccttggga tgccttgcac tcccttggga tgccttgcac tcccttggga 360
tgccttgcac tcccttggga tgccttgcac tcccttggga tgccttgcac tcccttggga 420

<210> 19971
<211> 395
<212> DNA
<213> Glycine max

<400> 19971
agcttgaatt tgaacaacgg aagctctoga gaaaatogag tggtcataaa ttttcacaca 60
gatgtccgat tgggggaaat aatatatoga gaagcaagaa attgaacaa ggaagctctc 120
gagaaatatg aatggtcata acatttcaact cggatgttcg atccggggag ataatttata 180
gagacgctcg aaattgaaca accgaagctc tcgacaaatt agaatggtcg taacttttca 240
cgagaatgtt cgattcgggg acataactca tctagacgtt cgaaattgaa caacggaagc 300
tctcgagaaa tttgaatggt cataagtttt cacacggatg tccgattcgg gaacataata 360
tatcaagaca atcgaaattg aacaacggaa gctct 395

<210> 19972
<211> 313
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19972

cccatttcta ccaactacaa aacctaaaga aactatatta tctacacaaa aggtacactt 60
ctctatattt gcatagaggg tgttttctct aaggactgaa agaacttgtc tgagatgtcc 120
taagtgtaca tctagcctcc tactatacac taaaatatca tcaaaataaa caactacaaa 180
tctacctatg aaatccctta agacatgatg cataagcttc ataaaggtgc tgggtgcatt 240
agtgaagcca aaaggtatca ctaccattc atacaaaaca aacttgggtc tgaagacagt 300
tttccactca tca 313

<210> 19973
 <211> 464
 <212> DNA
 <213> Glycine max

ccatcattt cttcttctt cttcttctt cttcttctt cttcttctt cttcttctt
 tggggcggtat cctttgaaag atccgtaccc tttttttgca catgttctg agttgcctcc 180
 tateogaaga cattatactg acactgccta atgaaggcaa ccaactaggtc cttccaagaa 240
 tggactcggg aagggttccaa gttagtgtac caggtaacag ctaccccagtc aagaatttct 300
 tgggaaggaat gtatcagtaa ttctctatct tttgcgcctg ccccccattct ccgataatac 360
 atcttcagat agtttttggg gcaagtagtc cctttgtact tgtcaaaagtc caacaccttg 420
 aaattgggag gggtgatgat attgggttct aggaaccaac tttt. 464

<210> 19974
 <211> 461
 <212> DNA
 <213> Glycine max

<400> 19974
 tcttggagtc ttctatgcaa tgccttgag gggatgatt atttcattcc ctccccctt 60
 gaaaaggatt tgatctcaaa tccatagggt cttgaaaactc atggattctt tctcaacac 120
 ctctaaaaag aataaaaaaca tatgtattag tgatgttggg tatgttagag tacgataagg 180
 actgaaaacc cctttcttgg ccatcttccc atgagagaat atagtctctc accaactcag 240
 tgagtgggtgc tacaagtata gaaaaatatg ggataaacct tttgtaaaag tttgttaaga 300
 tattgaagcc cctaatttcc cttatacatg gtggagtaag ctactcaaga atgaacttta 360
 tctcttatg gtccatggga agccttgat cactatttaa aaagttaagg aaagtaatgg 420
 aataaaatat acctcttctc ttatttttca tgttgattat t 461

<210> 19975
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 19975

tattagtttc agatgatgca gatggatttg tagctacctt atgcactcct ctaatgacta 60
tggcatcatt tttggcctca aatttttggg agttggaagg catcttctca attaatctc 120
tttcttctca tttcttctca tttcttctca tttcttctca tttcttctca 180
tttcttctca tttcttctca tttcttctca tttcttctca tttcttctca 240
tttcttctca tttcttctca tttcttctca tttcttctca tttcttctca 300
tttcttctca tttcttctca tttcttctca tttcttctca tttcttctca 360
tttcttctca tttcttctca tttcttctca tttcttctca tttcttctca 420
tgttatt 426

<410> 19976

<411> 417

<412> DNA

<413> Glycine max

<400> 19976

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agaaccagg ctcctatctg gtagttcact tcgcgacgtt tcccatcagc ttggcttttc 120
atagcagctt gtcccttaga agcttatttc gaatagcttg gaaagtgata tccctgtcag 180
ttaacatctc ttaacggcc tcaatgttcg aagacctgt aatatattct ggatagttaa 240
aggcttttcg ctaaaggtaa caccatacgt agtggctcca gttcccat tccatgaagt 300
attatgggat cattcgacc accgagaggag ctccccccac aagcttggcc gaggatggat 360
gaaggctcgc aaatattgtt caattatcgc attcaaaacc tctgtctgtc catcaat 417

<410> 19977

<411> 377

<412> DNA

<413> Glycine max

<421> unsure at all n locations

<400> 19977

gacactctcg aacactcagc ctatagaat atgtanataa gagactcga ctattctta 60
atcattcatg ttccatgga tgaacaaaat gctattctc ccagaaagga tatttttaat 120

gatgttggta aatccttata acgaatgcat atccttggac actattctcc agggacaggg 180
agaggaagca ttgaaaatcc tcccgaaaaa gatcatcccc ttgaccacat tattgggtgat 240
atctcagaag gggtaacgac taaacattct ctctaagatg tatgctataa tatggctttt 300

<210> 19978
<211> 407
<212> DNA
<213> Glycine max

<230> unsure at all n locations
<400> 19978

tatagaatat ataattacat aactaagacc attttagatt ttattcatgg caacctccga 60
tgaggetaga gggctatttt ctcccacaaa cgatatctta natgatgttg cagaatcttt 120
acaatgaatg catattcatg gacaatatcc taaagggtaa gggaaaggaa gcaatgaaga 180
tctctccgaa gaagatcatt cccttgacaa cattattggg gatatctcaa aaggggtaac 240
aactacacat tctcttaaag atttatgcac taatatggct tttttatcta tgattgaacc 300
tataaatata aatgacacca tattacatga tcattggata gctgctatgc aagaagaact 360
aatcactt 369

<210> 19979
<211> 407
<212> DNA
<213> Glycine max

<400> 19979

cgttgctect ctcttacacc tgcagatgta atcaagtttc tcataggaga ttttaggttg 60
agtaaagctc gagccagtga tctcttttgg gaagctgttt ggctcgtct gttagcaaaa 120
ggctggcatt ctgaacagcc tatagatcaa gttgtttctg gatcaaaaada atcttttggtt 180
ttctctgtac ctggtgttaa gaaattttca agaaggaaac tgataaaagg tgaccaactac 240
tttattctta taagtgatgt ttggaataaa gtagcatctg acctgagct tcttgagact 300
gaaagtcaag caactgaggg cagtgtatgt agggaaaaaa cagaagacaa aggagaccta 360
gaggtgtggt caaataggga acaagttcat taccctcaat ctcaaaag 407

<210> 19980
 <211> 389
 <212> DNA
 <213> Glycine max

tttctttaa gtaatttga gttatcttga gttatcttga gttatcttga
 atttattca cttctttttc cggttataga ttcccttaac aatgaatttc ttaaataatta 180
 attcaaataa aacaatttga atatgaatgt taagcaataa taaacaaagg aggttaaggg 240
 aagaajaaagt gcaaaatcat atttatattg gttcggccac acctttgtgc ctacgtccag 300
 tcccaagca atccgttaga gagttctact atcttgtaaa ttccctttac aagttctaaa 360
 caacaaaaga caatccttcc tttctgtt 389

<210> 19981
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 19981
 taacaatcag tgtcatacta ttgatcaaaa caaagtcctg atttatatgc aatactagac 60
 tcaaaatatg caacaaacac tagacctaaa tcagtgtcac agaaattgga agaaaatatt 120
 ttatccaagg acaaaactta agccttattc catgtattgg ggggaagtta tggctggcca 180
 tatgggtaga ggtgtcatag agyagcaggt atggaggaag ggaacctgga ctgctgaaga 240
 ggaacaggtg ctgtttgagt atgtcaggtt gcctggtgaa ggtagatgga actctgttgc 300
 taggcttgca agtaagaaac accaaacttt ttctactgtt ttgtttctta atatatatga 360
 ttggattttc acatttataa gtgacaatat agcaaaaaaa caactgaaat tgttttcaac 420
 ttctactgtt catgttgggt acatt 445

<210> 19982
 <211> 485
 <212> DNA
 <213> Glycine max

<400> 19982


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<212>      DNA
<213>      Glycine max
```

[illegible]

```
<210>      19986
<211>      217
<212>      DNA
<213>      Glycine max
```

```
<023>      unsure at all n locations
<400>      19986
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agcttgtaat cgattacaca catatctggt tggattatca gaggagattn tcagaaagat 60
attctcaatt gtcacatctt ttcagttggt tcttgaatgg ctatcaaagg cctatattta 120
tctgacttga gacacgaatt tgctaagagt ttttcagaac aaaaaggctct tatctcttta 180
aaaaccacaaa tgaattttatc ctcttacaaa ttccttgggc aaaacac 247

<210>	19987
<211>	245
<212>	DNA
<213>	Glycine max

```

1470>      14987
agctttttatg cctcagatct tcttcattat tggagtctctt cgtctcttga agatcagttgg      60
tagcataata gagaaggaag atagatgatt ggagatgcca ctccaaggag aagatgatcc      120
aagaacaagc tcccaccat aggaagccat tgattaaagc ttgtatctac gaaaagatga      180
gtggaggggag aaaaagaaaa agagcaagaa aattctttgcc ctatgaggt ctaaaaacttt      240

```


gagtgggaatt ctgaaatgga taaaagtga aaaaaaggcc cccca

285

<210> 19988

<211> 313

<212> DNA

<213> Glycine max

gaaaagatc atgaggaagc ggcattgtgc ggtactaac tcacgggac tgaattcaa

120

gtctcaaaaa ctaacccaac gcaactatgg gggtgaggag tattttaagg aaatggatgt 180

gtctatgatt caagcaaata ttgaagaaaa tgaggaggta aatacggctc gattgcttaa 240

tgggttgact aacgatatct gcgatacctg cagagcttg ttgaaaagga tgatttgctt 300

ctcaaaagcac tcc 343

<210> 19989

<211> 344

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19989

aaagcccacc ctaacgcata caacacctta tcataagtag aataattaag ggtaagacca 60

cttaactttt cactaaaata agcaattgga tgaccttctt gcatcaaac agccccaatc 120

ccaacatttg aagcatcaca ctcaatttaa aaagatttta gaaagtctgg caatgcaagt 180

atggggggcat tagctagctt tagcttaaga acatagaaat cttcttctag tttatctaca 240

catctcacac caacattttt ttagcacttc attgagaggt gctgccaatg tgctataatn 300

ctaccccaat cgcctataaa accttgctga accatgaaaa ctcc 344

<210> 19990

<211> 386

<212> DNA

<213> Glycine max

<400> 19990

aaagttattg gcgggggaat ttgctcagag gttcaacatt caatttcag cctctcttca 60

tattacagga ctcaatcaga catccgagta aaaagttatt gtctgttgaa ttggtctaga 120
 gcttcaacat tcaatttcga gcgtctcgat atatgacagg acgcaatcag acatccgagt 130
 aaaaagttat tctcgttgga attagctcag aggtctctaca tccaatttcg agcgtctcat 240

<310> 19991
 <311> 445
 <312> DNA
 <313> Glycine max
 <323> unsure at all n locations
 <400> 19991

gttggtggcat atgtacttta agtgagagag aagatattta aatactggaa taataattaa 10
 tattacgagt aaataacata tacaagatg attaatTTTT acataatcaa tccatattta 110
 tcatataatg taaattgatt gatagtaata ataaaaatat aaaattcata ttaattatga 180
 ttttaagttct aaacattata gatgatatga taaaaaaaaat gtgtataaaa atgagaaaatt 240
 aagcaataat gagagaaaaat aaaattgaat aatgaaagag agaaagagtg tgaccgtcac 300
 agcttccaat agatttgtgt tctcgtgcaa gtacttgagg acccatgtta gaacactcgc 360
 tgtggtgtca tgtgcagcaa agatgacacc aatgagatta tcaacaactt gagaatctgt 420
 gtgctgctga tagtacatct tgttc 445

<310> 19992
 <311> 355
 <312> DNA
 <313> Glycine max
 <400> 19992

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 gcttccaagt aagctgaagt gcaagtgggt tgaccattct tcatcaaaaa agttatgcca 180
 catggagcaa tgatattgga ggacccaacc accaaaaaga catggactgt gaatggcatt 240
 agaatcaaac actacttagg tggagatttc gagaggctaa ccactgttg: ccaactgcaa 300

gaagcttgaa cccaacaagg acatccatct attaagacgt taaagaagcg ctctt 355

<210> 19993

<211> 437

<212> DNA

<213> Glycine max

tttggagggg agaatatga atcgaatca tgcacac tggaaagag aaatttttg
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 atagaatata gggccctcgta ttgggttagat accttaaaat cccacataaga cctttgaaga 140
 cctgggagtc taccctctct ccttcacaa actttgataa ctccaagcca ccttcacatag 240
 ggtgtttcac gggattgcaa tcaagcatat taaatttctt caacacttct ttgtgttagc 300
 ttcctgtgta gacaaagata ccattctcgg ttgtcttcac ttccattccc aagtaatatg 360
 acatgagtc ccatctctgc atatcaaatt cacyagacat ggactccttg aagtcttcaa 420
 acaaatttgg gttattg 437

<210> 19994

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19994

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 tactcggatg tctgactgag tcccgttaata tatcaagaag ctogaaattg attatogaag 180
 ctctgagcaa attcaaacga caataacttt ttacttggat gtctgattga gtcccgtaat 240
 atatcgagat gctogaaatg gaataccgaa gctctgagca aattcaaacg acaataattt 300
 tttactcgta ttttcgattg agtcccgtaa tatatogaaa cgotogaaat tgaatgtcga 360
 aactctgagc aaattcaaac gacacaaact atttactcgg atgtatgatt gactcatgga 420
 atatatcgag atgttagaaa ttg 443

<40> 14935

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<E10>      19996
<E11>      438
<E12>      DNA
<E13>      Glycine max
.
<E23>      unsure at all n locations
<400>      19996
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<210>	19997
<211>	271
<212>	DNA
<213>	Glycine max

400> 13997

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 gaattgacat gaaagtcact gcaatcgagg a 271

<210> 19999
 <211> 314

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 taataacaag aataaatacc gtaataagat gaaaaataaa ttctcaattt aatacttatt 120
 agtgtatatt taaaagaaaag ctgcacaaaa ttagtaatta ttgattatca ttgggacatg 180
 ttagaagagac attatgtgtg cttttttttac tgagacaatg ttatttgttt taatagacta 240
 ataagttaat ttaacatatt gaaacatcaa attataaata ttctgtacaa aattaatggt 300
 atatacgtgt tggatgtatc ttttcagcat aaaaaggttc ttggatgt 348

<210> 19999
 <211> 168
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19999

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 ggtcataact ttaactcgg atgtccaatt catgcgcac acatatagag acgctaaaaa 120
 atgaacaacg gaagctctcc agaagttaaa atggtcataa gttttcac 168

<210> 20000
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 20000

cgagttttac gcagagtttt tacatcgagt ttctcgggtc tgacgacggc gtggcgggtga 60
 ttgagcttggg gctcacacct gcatgtaaaa gtctggttgc ttctggttcg gcgatgaacc 120
 tcttcgtcca ttgagagcaa ttgtttctcc atcgtcagtt tcaactccaa attctcgcgc 180
 gcgctgtcca attctcaatt caagatctcg tttagccgct cctttcagat agtcgcaacc 240

ttggaaaacga aaacgatata acttctctaa gtctcatgcc ctgcacggag gaattggaga 300
 cgggtggggc gccgtaacgg atacgattgt actcggcgag gtgctctctg agaccctccc 360
 cgtagaacta ctaccccttt ctgactctcg ggaagcggc ccttctctcg actccctat 420

<210> 10
 <211> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20001

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 ttcttttcaa tttagacctt cacttgcctc tgcacattct tcacatactc agctntagcc 180
 tgtgcatcat tatgcttaaa catagcaatg ttaggcatag gcaacaaatc aagaggagtc 240
 aaaggattaa atccatatac tatctcaaat ggtgaacaat tagttgtgct atggacagct 300
 cgtattataag caaactcaac atgaggcata caggctgtcc aagatttaag attntctnt 360
 aatacagtc taagcagtgt tctaaaagtc ctattgacta cactcagttg accatc 416

<210> 20002
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20002

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 atcattctct tacaatcatt tagaatgctg ctgcacattg acgcccagag ctccagagat 180
 atcattgcca gctctcttag gtcgcgtga tcaactgtcty ggtccgagga aagcactgc 240
 atgcacaatt cactgtctcc cctgtttttg catatgctct taattagctc ctgctcaat 300
 tttctctctg ccgcacgct tcnctgatgt gctagaacca accacatgca tatcccatc 360
 acccacaaca a 371

<210> 20003
 <211> 392
 <212> DNA
 <213> Glycine max

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 gcaaaaggca agataaagtg tcaaatgaag aattgaagct gcaggattca cgatgtcgga 180
 tacaatgtcc aggcacatcc gcccgaaaat actggagttg ctgaaagcat tgaagttgca 240
 agatccacga tgtctgacac gatgtcttga catccggccc gaatatactg gacatataaa 300
 tctgttatat ctntaacaga ttattgtgca gttagcaaga gataagatga tctatcttta 360
 ggaacgaatt aagagataat tatagttcga at 392

<210> 20004
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20004

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 aagtttttca aaatattgag tagcacaaga atttttcaca aaatctttta ccaaagagtt 120
 ttactctctg gtaatcgatt actagaaggt agtaatcgat taccagttagc cagcattggt 180
 ttcaaaaactg atttacaaag ttgtaatcga ttaccataat catgtaatcg attaccaatg 240
 tttttaaactg tttagatttca aatttcaaga gtcataacta atgataaaaac attttcaaat 300
 cttttttaaac ttgtgtaatc gattacacaa taattgtaat cgattaccgc tgnntctaaa 360
 cattnntgat ttcatntaa acatgaagag cacatctttg atgtgaatcg ataccatgac 420
 tg 422

<210> 20005
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20005

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ctgaattt ttttccccct ccccctcccc ccccctcccc ccccctcccc 120

ctgaacaaat ctgggttggg ggaatcagcc aaagttttag ttgactagtc ctgctttag 180

cttatagcct gtccctcatt tncagaatgt tgttgggtcca agcaagccat atgttccctc 360

ttcaattgaa cagcaacaac agcagtcaca acaaagacaa caagcaaccc 410

<10> 20006
 <11> 373
 <12> DNA
 <13> Glycine max

<223> unsure at all n locations
 <400> 20006

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ttcaattgac ttaagcatad cagacatcat acacaagtat ggccaaccca tgcactctc 120

acaactcatt gcttcactac caatccaccc atccaagact tgcctacatcc atcgtttgat 180

gggactcttt actcattccg gtttctcttc tgggcacgat ttggtcgaaa acgaacaaga 240

agtgatcacg tatgagctaa ctgatgcac tagactactc ctcaaggacc acccttttag 300

tttgaggcct ttgttgctag tcacacttga tccaagtgtg attaagtcac ggtgtcaatt 360

ctctacttgg ctcaacaag 378

<10> 20007
 <11> 411
 <12> DNA
 <13> Glycine max

<223> unsure at all n locations
 <400> 20007

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attcaatagg taaattgata cacttgcgct atttagatct ctctcattca atgttagaaa 120

caetgccccaa gtcattgtgt aatttataca atctgcaaac tttgaagttg tgtgggttga 180

tcaaaactgac taagttgcoct agtgacatgt gcaatcttgt taacttgcgt catcttggta 240

ttgctgatgc tccataaaaa gagatgccga gaggaatgag taaattaaat catcttacaac 300

ctctggttgc tctcttctga cctggtctga cctggtctga cctggtctga cctggtctga

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<210>

<211> 135

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20008

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atctttttcca gaaagacttt taacaaaata agaaaagaaa agtttttcat aattacctta 120

ttacacaacct aatgatagaa gctctttcat attagttttt tccaaaagat atcttttaaat 180

tatgtataaa ctaacattaa cttatagata agtntattta atcttttttc tttctatttt 240

cctttttttac tagtacttct aaatacatct atccaaatag acccttaata ttaatatata 300

tcaacaatac ttacatccaa atgatcactt aatcaagact tgaaattatt ttatataaaa 360

taaccagatt aattaaccaa ttacgtgctt gggtttcatt totaacatca atattagtaa 420

ttatttagaa ctttt 435

<210> 20009

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20009

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ttgtatggtc tgcattgatt gaatagtatt caaagtgtgg acaaatgaat gatgctgtga 120

tagtgttaac agagtatcca aaaccagacg tggctttatg gacttcaata attactgggt 180

atgagcagaa tggaaatgct gaacttgcac atgencattt ctcccgaatg gatgtgtttg 240

agctaglaag tactgatcca cgaacacttg ttaatgctgc ttctgctngt gacgcagtat 300

ctgattctaa ccttggaaga agtgaacatg gaattgtcaa acgaaagggt tttatactaa 360
 gtaggtttgg caattcta 378

<210> 20010

<211> 414

<212> DNA
 <213> Glycine max

gccttattaa actatatatt tccgaagggt ttttttttta taagcctcct atttttaaty 40
 ggttggttta ccattattgg aaaccccgca tgcgaatttt tatagaagca atagatctaa 100
 atatctggga agccatagaa attcggcctt acattcccaa tatggttgaa gcaaatadca 180
 ccataaaaaa aactatgaaa gaatggagtg aagatgacaa gaaattagtt caatacaatn 240
 taaaagccaa aaatataatt acatctgctt tagggatgga tgagtabatt agggtatcaa 300
 attgtaaaag tjaaaaagat atgtgggata cctacacgt aacacatgaa ggtacaacaa 360
 atgtaaaaag atctgggata aatacattga ctcatgaata tagnaatttt agaatgaatc 400
 ccaatgaaag catatatgat a 441

<210> 20011

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20011

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 attccatatt gtctgatcca ccatgaaacc cctagatgtc caggaggatc acatatttct 180
 gaaggatttt cctcattctt tagagggagt ggcaaaaggac tggetatatt accttgcctc 240
 aaggctccatc acgagctggg atgaacctca gagagtattc ttagaataaaa tttcccttgc 300
 ttctatgacc acaaccatca gaaaagatat ttcaagaatt aggcgaactca gtggagagag 360
 cttatatgaa tactgggaga gattcaagaa actatgtgac agttgccttc acca 414

<210> 20012

<211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20013

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 gtaagctggg ttctgggagga atgtgaaatc agtaacagtg tttagcagaa atcagtcagt 300
 ttctgatgggt cataagaggt ctcaaattgt ccagactatg atcacactcc aagccctcat 360
 tcaacgccat caagccagtg atcattagct ctttcaagcc atggatcacc tagctcac 419

<210> 20013
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20013

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 tctctgactt tnacaataag tatgtgggtc agaaacacca cttgagtcac gacacccgtt 120
 ccagtgagga caataattga ggttccaagg gtgttagaca tcatgggttg atggtaggca 180
 aacatctcac tcatgtgggt cttcaacact tgaccaatgt taggtggcat tttaccactt 240
 ggtatagtgg cttttgtttg caatgctact atgtgcctta cttgcacaac ttttagtggg 300
 aacttttcat aagctgtttc tctagacaac attattccgt tagaaccttc ttgaacaaca 360
 attactaaat atgatacctc tattctgggt agagtcgggt gaacaatcat gttgtctagc 420
 atatgtgatg ccacaataac agtcttttcc atgcttagac acaagtttat tacc 474

<210> 20014
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20014

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 caacttctga gcaggtacga gcagttatgc aagtgggata agcaacttcc attatcagag 120
 taattcaaaa aatcaaatc tglagtttag acaatttcca aatcgtttcc aagaatttaa 180
 aatcgtttcc aagaatttaa aatcgtttcc aagaatttaa aatcgtttcc aagaatttaa 240
 aatcgtttcc aagaatttaa aatcgtttcc aagaatttaa aatcgtttcc aagaatttaa 300
 aatcgtttcc aagaatttaa aatcgtttcc aagaatttaa aatcgtttcc aagaatttaa 360
 aatcgtttcc aagaatttaa aatcgtttcc aagaatttaa aatcgtttcc aagaatttaa 420
 aatcgtttcc aagaatttaa aatcgtttcc aagaatttaa aatcgtttcc aagaatttaa 480

<010> 20015
 <011> 375
 <012> DNA
 <013> Glycine max
 <023> unsure at all n locations
 <400> 20015

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 gctctcgaga gattcgaatg gtcataaatt ttcacacgga tgcccgattc gggcgcataa 120
 tatgtcgaga cgtctganat tgaacaacgg aagctctcga gaaattccaa tggtcataac 180
 ttttcaactc gaggaccgat tcaggcgcat aatatacga gacgctcgaa attgaacaac 240
 ggaagctctc gagaaattca aatggtcata acctttaact cagaggctcg attcaggcgc 300
 ataatatatc gagacgctcg aaattgaaca tcgaaagctc tctagaaatt caaatggtca 360
 taaattttca ctggg 375

<010> 20016
 <011> 375
 <012> DNA
 <013> Glycine max
 <022> unsure at all n locations
 <400> 20016

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 aatccattaa gtgattaag cagctccatt agcgttctct gaatttcaac atctgcactt 120
 gtctctctat tgaacgagc acctccaatg gcataaatct catccataaa aatgatgcac 180

gactaatcaa gaaaagtata gatttagaac atgtntaaat tagtatgtgt aaacattatag 240
gaagacaatt tcgcacaagt acctcacctg gggatcacgt gcataaccaa acattctctt 300
tattaaacttg gcaatttctt caatgtactt gcaattatg ccactggttt caaacaacta 360

<210> 111
<211> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20017

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aaaagatgct tataatgtga tcgtattang ataaagatgt attcangtca ttggctaaaa 120
tatttataca taggttaaaa tgaattctg atttctttat ttttataaat ccattgatttt 180
agtttccatc ttttaaaatt gagatattta gtctttcaat tttctaagat tottaatttt 240
ggtcaattca ttcatttgag atgggtaatt gtttaattgat taacgttgat catttatctg 300
gttttttatt ctcatTTTTT tattaccgag taaaagaatt ttataaaaaa aatatttgac 360
gatattgggc cncgtgtctac ctggtgagaa tcccaaagct gcccaaatat anggatctat 420
g 481

<210> 20018
<211> 206
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20018

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tggtagtggo aattctccat tctcaaacct tttcggagcc ccattgaatta tgtnttcggt 120
catgtgtctc ccaccttcga gttaggagct atgcgtagtg attggttag gcaattctcc 180
attctcaacc ttttcggag ccattg 240

<210> 20019
<211> 429

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20019

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gctgctgctg gctgctgctg gctgctgctg gctgctgctg gctgctgctg 120
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gctgctgctg gctgctgctg gctgctgctg gctgctgctg gctgctgctg 420
gctgctgctg 429

<210> 20020
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20020

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ctatgcaagt tgaaagcctt ggaggaaaga ggtatgcta tgttggtgtg gatgatttct 120
ccagatctac ctgtgtcaac tttatcagag agaaatcata cacctttgaa gtattcaagg 180
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atgagttctc tgcagccatt acaccacaac agaatggcat agttgagacg acaaacatga 360
ctttgcaaga agttgctatg gtcagtcttc atgccaaaga acttccctat aatctctgtg 420
ctgaagccat c 431

<210> 20021
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 20021

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tcttcttctt tcttcttctt tcttcttctt tcttcttctt tcttcttctt tcttcttctt
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actttcttctt tcttcttctt tcttcttctt tcttcttctt tcttcttctt tcttcttctt 420
ataaatcttc taaacaataa atttctaac 449

<410> 20022

<411> 412
<412> DNA
<413> Glycine max

<423> unsure at all n locations
<400> 20022

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acgagacatc ttgccaaaca aagtcagggt agcgataact cgcattgtgt tttctctcca 120
tgcctatatgt agcaaagtca ttgatccagt caagtttgat gagttggaaa ataaggcccc 180
aattatactg taccagttgg agatgtattt tccctgcttt ctttgacatc atgattcact 240
tgattgcgca tctggtcaga gaaatcaa at gatgtggctc tgtttatcta cgggtggatgt 300
acccggttga gtgatacatg aagatcttaa cagggtatac aaagaatcta tctcgtccag 360
tcgcattctat tgttgagagg tacattgcaa aggaaagcca ttgattttgt tc 412

<410> 20023

<411> 352
<412> DNA
<413> Glycine max

<423> unsure at all n locations
<400> 20023

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ttaatatctg agatgggggt acatactaa agatcagttg gatttaaggtt atttctctaa 120

ttctgtaagt cggtgatata ttgtntacaa ctaatgatct tgggtcttctt catgaggcaa 180
 taagtatttc totagacact gtgaaatgaa agatatgggt gagacaagct atgtgataag 240
 gatagaaata ttctgaaata aatcataagg attgttaagc ttgtcttaga gaacatatat 300

<210> DNA
 <211> 444
 <213> Glycine max

<223> unsure at all n locations
 <400> 20024

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 ttaacccaac gaagacactg acaaaaaactt atgttctctt ttntggacaa agtatgataa 120
 gctgggggga agtaaatntt ctcccatca gacctggat gcaattgtga tcttatcccc 180
 aactcagcta gatcttgacg ggtattcaac ccacctctcg tcttgccctg aatgttaagc 240
 agcaccacca tcacactgtc acatacattt ttctccacat gcataacatc aatacaatgt 300
 ctaacgtcta gatcagacca gtacggaaga tcatagaana tggacctctt ctcccatatg 360
 caagtcttac tgttatccct tctttgggtc ttcccaaata tagtatccag gtgctgaacc 420
 cgtattatac ctgc 434

<210> 20025
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20015

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 tggcaggctg ggggcaagta aattttcttc ccacagacc ttggatgcaa ctgtgctctt 180
 ataccatat cagctagata ttgacgggta ttcaagccat ccttcgtctt gccttgaatg 240
 ttaaggagcg tcccaataac actgtcaca aaattttct ccacatgcac aacatcaata 300
 caatgtctaa cgtcaagatc acaccagtae ggaagatcan agaaaatgga cctcttcttt 360

catatgcaac tetgactttt atacttttctt tgggtcttcc aaatacagtg ttcattgtgtt 420
gaabccgtga tataacctgt cacc 444

<210> 20026

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cctaaatccaa taactctgtcc actggattat gtgcttcttt tggacaattt gtggacccaa 120
caacccgtgtt gttgtgtgtc atgacccaat tgcacagaact gtacagtctc aagatggcag 180
aggaatcatt tattgggttg ccaccgtttg caaccatac aacatgttgt gaacgattat 240
tcttgaacca aatcccccag taactcttgt ttggaagtc aagattgaag aaaccaagct 300
caaagattcc ccttctggaa accatggtct ttccaaaact tgaggattgg gaactgtgata 360
tggatgatgt gttgtct 377

<210> 20027
<211> 398
<212> DNA
<213> Glycine max

<400> 20027

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gttatattat gtaccacgg attcgtattc cttatgggtg atagtgtttt tacatggagt 120
tctaagaagc aaggcattgt gacactttct acttgtgaag ccgagtatgt agctgcaact 180
tcttgcacat gtcattgcct ttggctaaca agattgttgg aggaacttca cttgttgcct 240
aacgaaagca cacagatcta tctagataat agatctgcac aagagcttgc caagaatccg 300
gtgttccatg cacgatgtat gcattatagat acaaggtatc atttcattag agatgtcatt 360
accgataaag aactataatt gactcatgtg acaactca 398

<210> 20028
<211> 423
<212> DNA
<213> Glycine max

[illegible]

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<E10>      20029
<E11>      413
<E12>      DNA
<E13>      Glycine max
```

```
<J23>      unsure at all n locations
<400>      20029
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tgctctttat ttgatccagt agaggaggag catacaacct atttcaactca agtcacaccc	60
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aaaggaaata tgcaaaagaa aatttgaaga agtttcaaatt ggaggaatac aaatctgtta	180
gcacaccaat gaatcaaaat gacaagttta gcaaggaaga aggtgttgat aacattgatg	240
aaggatatta taggagcttg attggatgtc taatgtatct cactacaaca aggccaaaca	300
tctatattgc tcaaaaagaac aaaactggaa ttnttgttga caatcaagta gccattgcta	360
tgcgaacaaa ttccatgtgt catgggaaga ctaaacattt caacatcaag ttctatta	418

KL10*	20030
KL11*	226
KL12*	DNA
KL13*	Glycine max

42235 unsure at all 8 locations
44035 40030

tuatatait acceactea atcaacate acaataaaaa atattatcu ttttaatttu C

caacgaccat caacattcaa ttctgagcgt gtccgatatat tacggcactc aatcagacat 120
 gagagtaaaa agttattgtc gtttgaattt gcaacgacca tcaacattca atttcgagcg 180
 tctccatata tcttcggcact caatcagaca tccgagttaa aagtta 226

<10> Glycine max

<20> unsure at all n locations
 <40> 20031

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 tcaatgaaca tatccagctg tatgggctca gagaatccat gagtaggaag ttttcgcagc 120
 aagctacaaa atctttctag ggtcttactc anagatntat ctgggaactg gtgaaaggaa 180
 gagatgacag ccttccctc tgcagtcttg gactctgaga tatatttctt cagaaaattt 240
 tccaaaattt tatcccaagt cctcaagcta ttacccttga atgaatgtag ccaactcttg 300
 gcttctccag atagtgaaaa tgaaaataag ttgatcctaa caacatcttc tggca 355

<10> 20032
 <11> 351
 <12> DNA
 <13> Glycine max

<23> unsure at all n locations
 <40> 20032

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 attgggtaca acaaatatgc aatttgatcc aacgtgtata ccatcttgga tggtaaaagt 120
 aggtaccttc tggagggttg acaagcttcc gggttatgagg aggggcatt tcttcttca 180
 actgtgtcag tatgtctctc atggtgtact ctctttgcca atttgcaaga agaccaaatt 240
 tcttthgttc aacctatttc attcaagttt ataaatcttg tcaaaaagat aattagttat 300
 taagccaata aaatagacta aattgtctca taatcatata catgagaagt g 351

<10> 20033
 <11> 455
 <12> DNA
 <13> Glycine max

<223> unsure at all n locations
 <400> 20033

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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
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 ggttgaggaa attgattgtg ttaagtgag aatgtgtgcc cttcttgacc cttttaaggc 360
 aatgttttat gttggctntg ctgactccaa gatgaggaag attgatntca gcanaaatgg 420
 tataagctca tagggtatga cggcagtga gttgt 485

<210> 20034
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20034

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 cacagatgat tatgctacca caganaaaga aatgttggca attgtctatg cacttgaaaa 120
 gtttaaattct tatttggtag gctcaagagt tatcatctac actgatcatg cagctattaa 180
 atacttgctc aacaaggcta attccaaacc aagattgata agatggatnn ttttgttgca 240
 agaatttgat ttggtgatcc gcgataaaaa gggatcagag aatgttgtag ctgatcatct 300
 gtcaagatta gtgaatgagg aagttacagc anaagaagtt gaagtgagag atcaattccc 360
 tcatgaatca cntattttta taagtgaag accctggt 398

<210> 20035
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20035

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agaaactttg aactttctgtt ggagttgtcg gttgttgcca ctctttaacc gactccactt 180
 taattggatc cacagcaacc ccattctttag aaatcacgtg ccctaagaac tgcactttct 240
 ttaaccaaaa ttacaaattc gagaatttgg cgaacaattt cctatccctc angatatgca 300

<210> 2139
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20036

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 ttccaaagtg tcatggcctt gcangtgaag acccgacaaa acatctaana gaattccata 120
 ttgtctgctc caccatgana ccaccagatg tccaggagga tcacatattt ctgaaggcct 180
 ttcccttatto tttagaggga gtggcaaaag actggctata ttaccttget ccaagggtcca 240
 tcacgagctt ggatgacctc aagagagtat tattagaaaa aattttccct acttccagga 300
 ccacagccat cagaaaggat atttcatgca ttatgcaact aagtggagag agcctatatg 360
 aatactgnga gaatatttaa aaactatg 388

<210> 20037
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20037

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 gttgaagagg cgtttgaaga cagctccagt gttaattttg cccgaacctc agagaacatt 180
 cgaagtgtat tgcgatgcaa gcgggcaagg ctctggggtgt gtgttgatgc aagagggag 240
 agtagtggct tatgtcttgc gtcaattacg tcttcatgaa tntaactatc cgactcatga 300
 ctctggaacta gcagcggtyg tctttgcctt aaagattttg aggcattatt tgtacggtac 360

ttcgttttgaa gtttcagtga tcacaagagt etc

393

<210> 20038

<211> 426

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agagcatagt gttttttggan aatgtctgtg atgttcggaa tgatttgaac gagagattct 120
ctcaaggaga cctttatcaga attttctgaac ttcaataaga gatatatggc ctcaaggcaag 180
gtctcttctc tgtcaactgaa ttttattctg agttaaaaaat actttgggaa gaactttaaa 240
catatatggc tattccatgt tgttctgtga ccattaaatg cactgtgtgt gcaatgagaa 300
atgcacagaca tcttcatact cttaattatg ctataagaat tttgactggt tngaattgaca 360
atttttcagt agtgaaatct cagatcctna ctatggatcc actgcttagt atgaacacaa 420
tttttc 426

<210> 20039

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20039

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aaaaaaaaacg tctttcataa aacacacaaa cagtaggcac taaaaccttc ccaaatgcta 180
agacaaaataa ggctacatta caaacaaggt ccagttctaga gcaacacatt cacttgaago 240
aagtctcaaaa gtacctcatt agaacagaag cagcgataaa catgaacgga ttggtgtagg 300
ttctccgcct attgtttgta taaagaattc ctctcagaat gcctataatg accataatcc 360
ctctcaaacac cagccctaa caatttcate acaacccaca aaaatacaca cttaaccata 420
aacaaaaat 429

acatctatcc tgtgtttcag atattngaac gggtatccg caacaaataa atacgtaaca 60
 agtcaattca agaaattggg agaagagatc ctgtctcaat ttaactagtt catgtcaatt 120
 tgattgctaa ccttcattga agttaacttg ttcaatgctt ccagctacac cataaccctg 180

<210> 20043
 <211> 121
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20043

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 ttgggtctaa gatgtggcaa cataagtgtt atcaatctaa caaaaaatcc tatcatgcat 120
 tctacgacta aacacataga aataatgcat cttttcttta gagatcatgt gttaaaaggt 180
 gactgctaca ttgagttcat agatagttag catttaacttg cagacatttt cactanacca 240
 cttgctagag ataggttctt tntcattaca aatgatatag gcatattaga tgcattcaac 300
 ataaaataac ttcttatttg cataatgtgt gatgcacatn gctatttgag acgatgacta 360
 atttattctg gagtctctac tttaatcaat caccaagtag tttaatcgat tacttctctc 420
 tgcctaaagt gtcagaagta acaagacact t 451

<210> 20044
 <211> 327
 <212> DNA
 <213> Glycine max

<400> 20044

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 aatgagttta tgagcaactc aagattcaaa agatgtgaca tgggccattg ctgctatggt 120
 aaaaaatata ctaaragtta tgttatcctt gttgggtatg tccatgacat gttgatgca 180
 ggacttatta tgatagaaat taatatgttg aatcagcagt tggcagaaaa ctttgaaatg 240
 aaggatcttg ctccgctaa acaaaaatctt ggtatgagaa ttcttacata caatccataa 300
 ttgaattttg agctgtctga agagaaa 327

<210> 20045
 <211> 449
 <212> DNA
 <213> Glycine max

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 atatgttaac ggactcaatc agacatccga gtaaaaagtt atgggtcggtt gtattggctc 130
 agagcttcaa cattcaattt cgagcgtctc gatatgttac gggactcaat cagacatccg 240
 agtaaaaagt tatggtcggtt tgtattgggt cagagctgca actttcaatt tcaagcgtct 300
 cgatatgtta cgggactcaa tcagacatcc gagaaaaaat tattgtcggtt tgattggctc 360
 agagcttcaa cattcaattt gtgcgtctcg atatgttaac ggactcaatc agacatccga 420
 gattaaaagt attgtcggtt gaactgctc 449

<210> 20046
 <211> 157
 <212> DNA
 <213> Glycine max

<400> 20046
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 ccgagagctt ccattgatca attttaagct tctaaatata ttatgcacct gaatgatact 120
 cgagactgaa aagttatgac ccttgggaatt tctcgag 157

<210> 20047
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20047
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 aatacatcga aacgtctgaa attgagaaca gaaactctgt ggaatgcaa acgacaatac 120
 attttaactc gaaggtcaga ttgagtcctg taatatatca agacactcga aattgaaat 180

aatagctctg aacaaattcg aacgacaata accttttact cggatgtccg agtgagtcca 240
gtaatatatc tagacactcg aaattgagaa tagaagagct gagcaaattc aaacgactat 300
aatttggtag tcaatatttc taaggagttc caacggtttc gatataattc 360

<223> unsure at all n locations
<400> 20048

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cactctatga agctgagtat attgcagcct cagaagctgc atgccaagca gtgtggctag 120
atgcccogat gaagaaattg caactggana aatcatgtaa agtgaagttg ttggtagaca 180
ataaatcttc cattgattta gctaggcctc cgaactctca tggagaagt aaacacatag 240
aaacaaagtt ccacttctta agaatgtcag caatgagaaa ctgaagattg acattgcaga 300
actgaaatto agcttgaaac atactcacta agaactttgaa gctagaaatg tntagatgtt 360
taagagatto cattggaatt 380

<210> 20049
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20049

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ttactatgat catctctttc tccgtcatta aggggtgccat atgggctgcc aggtctctcc 120
acctttgggc atattctttg aaagattcat gccctctctt gcattatgctc tgtagttgca 180
tcctatccgg agccatctca gaattgtacc gatactgctt aacgaaggca ccatttaggt 240
ccttccaaga atggaactca gaaggttcca agttagtata ccangtgaca actgcccag 300
taagaatttc ttgggagaaa tgtatcagca gtgtctcctc ttgtgggtat agccccctc 360
ttctgacaat acatctttag atggttcttg gagcaagtat tccctttgta ctcttcaaat 420
ttcagcactt tgaacttg 438

attcctgata attcggatcc tgagactgtc ctcaaaactat ctacaaattc tctgcatggg 60
 aactgagagg ttgtctaata naagttgctg ctctgaacta cctttccatc tgacaggcag 120
 aaagaattcc aatatgtaat catcatcatt agtataagta ctcccttagcc taattgcaac 180

<211> 10
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20053

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 caacacactg gagcaattga gcagcccgaa gcttatgttg caaatattta caatagacct 180
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 tacaacactg gatggaggaa tcacctaat ctccagatgg ctaggccctc gcaacaacaa 300
 tagcagcctg ctcttttcta tccaaatgtt gttggcccaa gcagaccgta cattctctca 360
 ccantccaac aacagc 376

<210> 20054
 <211> 191
 <212> DNA
 <213> Glycine max

<400> 20054

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 atgtctagac gctctaaatt gatcaacgga agctctcgat aaattataat gggcataact 180
 ttccactcgg a 191

<210> 20055
 <211> 206
 <212> DNA
 <213> Glycine max

<400> 20055

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taactcttc taatcccat ccatccaaa ccccaagctc attcaatgta cctgcttctt 120

<210> 410
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 20056

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ttgagtcccg taatatatcg aaaagctcga atgtgaatgt agaagctctg agcaaattca 180

aacgacaata actttttact cggatgtctg attgagtcgc gtaatatatc gagacgctcg 240

aaatggaata ccgaagctct gagcaaattc anactacaat aactttttac tcggatgtcc 300

gattgagtcg cgtaatatat tcgagacgct cgaaattgaa tgcgaagct ctgagcaaat 360

tctaacgaca ataacttntt actcggatgt ctgattgagt cccgaatata 420

<210> 10057
<211> 151
<212> DNA
<213> Glycine max

<400> 10057

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cggcagtaga tacaattcag gtggaggaa tcattccaat ctgagataga caagtcctcc 120

acaacaacat cagcctgtcc ctctcttcca aaatgctact ggtccaagca agccatatgt 180

tctctctcca atgcaacaac aacagtagca gtcacaacat agacaacaag caactgaggc 240

tctctctcaa c 300

<210> 10058

<211> 282
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <230> 20159

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 aacctaattt tcttcagtat atagtatgta cctctaaaat tg 282

<210> 20359
 <211> 192
 <212> DNA
 <213> Glycine max

<230> 20359
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 catggagata ctatcccact tccacttggg tatctctaaa ggttgtaact tacttgaagg 300
 ttgtgatat tctatcttag ccttttggtg gactagacac gcatacaca acttgctacc 360
 tctctcttat gttgggcccc aaaacattac ct 392

<210> 20360
 <211> 173
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <230> 20360

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 ctccctatat tacgggactc aatcagacat ccgagtaaaa agtttcttct tgggaattggc 120
 tccagagctc aacattcaat ttccagagctc tccatataat aagggaactca atccagacatc 180

cgagtaaaaa gttattgtcg ttgaatttg ctcagagcat cgacattgaa ttgcgagcgt 240
ctogatatat tacnggactc aatcagacat ccgagtaa 278

<210> 20061

<211> 20061
<212> DNA
<213> Glycine max

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taataacta gctntaactc gctattcatt tgagctaatt gtcttcatca tgtttccttt 120
agggtgagat aacctaaaac ttttgatttc atattatttt atggttatgc aggatattat 180
acgaactgcc atgctattta tctntcttca taagccattg gcccaatttc gatctgtttt 240
aaaagcccta agagcacaaa ggcttgcttc aatcgttggt ggatctcttt agaataaac 300
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ac 362

<210> 20062
<211> 351
<212> DNA
<213> Glycine max

<400> 20062

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agcgggagag ctccacaaac acggcgagct accaagagac ctccatgtct tacaagggtga 120
cgacaagcta gctcgatctc gataactcag acatgacaat agctgaatta ctgtatcctc 180
aggcaaacac ttccaatcaa caaccccttg cttttgagtt gccaaatcca aaacctcctc 240
tngaacttca gggagactag actgcaccac attccctatg ctatgtctcg ccagctttcg 300
tctcactcta tgaacctgtt ctcaacaaaa tcacagcata cccacaccaa c 361

<210> 20063
<211> 173
<212> DNA
<213> Glycine max

<223> unsure at all n locations

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 cttbaaaatg ttgttgggtc agcacacatt acgttctctc actaatccac caacaacaac 120
 attatagatc ttgtgaagaa ttaattatag atgtctctcc tcaaaccttc ttgtgaagac 180

<210> 371
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 20067
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 ggtgcacatg ttctgggtgag aaaatctgac acctgatcac ttgttgaaac tggtagtagc 120
 tttagagtgc ccttcaaaaag ttctctctgc tacaagatggc aatcaatttc caagtgtttt 180
 gtgcgttcgt gataaaccgg atttgaggca atgtggactg cgcttttggtt gtcacagtaa 240
 agagttggag ttctggtaag ctgaactctc aaatctgcag aaagatacaa cagccattgc 300
 aactcacaag cagctgaaaa cagagccctg tactctgctt ctgaagatga tctggacaca 360
 gttgcttgct t 371

<210> 20068
 <211> 314
 <212> DNA
 <213> Glycine max

<400> 20068
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 aatcagacat ccgagttaat agttattgct gtttgaattt gctgagagct tcagcattca 180
 atttcagcgt tctcgatatt ttacgggaat caatcaaaaa tccgagctta aagttattgt 240
 ttgttgaatt ttgtgagagc ttcaacatlc aatttcagag gtctcgatat ttacgggac 300
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<210> 20069
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 20069

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 agatgggttaa agtttcttaa agattatgat ttgagctta gctaccatct caacaaagcc 360
 aatgtagtgg ctgacgcctt gagt 384

<210> 20070
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 20070

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 caacttgatt atgaatataa agcaataata tataaaggag attaagggaa gagaaaatgc 180
 aaactcagtt ttatactggt tcggccacac ccttgtgctt acgttcagtc cccaagcaat 240
 ccgcttgaga gtccactat cttggtaatt ccttttataa ggtcttaaca cac 293

<210> 20071
 <211> 229
 <212> DNA
 <213> Glycine max

<400> 20071

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 tgataaccac ttttaagatt aattattgaa aagatgttgg caccatucac ctcatcagc 180
 aaatcatcaa gtctatgaat gtggcgctta tactttacac aaatgttcta gatggcctg 240

caatctgtac acattctcac gtaccatcct ttgtgggcac caacaacact ggcacaaca 299

<210> 20072

<211> 401

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gaattatgaa acattacaag aacattttta ttggcctcat atganaaagg atgtccacaa 360
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<210> 20073

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20073

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cccactctgt cgtcatggcg agactcaaga aggccaacag gntagcctt ttcaatgtac 180
ctctanacaaa attcaatggc ttcttctgca atgtaccttt caacaataga tgcttctgga 240
caatgtagat tcttggtata cctttttaag atcttcatgt atcgtcaac cgagtacatc 300
caccataaat aaacaggacc acaacatttg atttctctga ctatgtaac aatgaagtga 360
atcatgatgt ca 372

<210> 20074

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 20074

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ggaatggaatg ggaatggaatg ggaatggaatg ggaatggaatg ggaatggaatg 360
gagcttgtaa gcttgggac ttttcatca atggagtatt ttgcttcttg aagagatcaa 420
tggcagtgga atgaaaaa 438

<210> 20075
<211> 314
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20075

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aaatgcttga gagacttgca gggcaatctt tctattattt tttagatgga tattcgggct 120
ataatcaaat tgcagcggat ccttatgacc aagagaagat agctttcaca tgccccctcg 180
gtgtatttgc ttattgccgc atgtcattca gcctatgtaa tgcencaact actttccaga 240
gatgtatgat ggcaattttt gctgacatga tagagacatg tattcaagta tgtatggatg 300
atttctcttc ttg 314

<210> 20076
<211> 193
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20076

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tgttttaaga ttcataggat attgtacott aattgttgag ttcttcacga ccaagggtca 180

gtctgattaa tggaaactgaa aagtccttcac gaggaagaa taagaatatt acagcagttg 240

tgtgatctac aggtattttt ttcccttaat actatgtaca ccagtatttt aactagtatt 300

ttcttcacga ccaagggtca ttcttcacga ccaagggtca ttcttcacga ccaagggtca 360

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<11> 363
<112> DNA
<113> Glycine max

<400> 20077

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tttgtatccc tctcatgaat atcaaaagagc catttagaac tccattctcc cctttgaaca 180

cataaccttg ttgtcaaaa tcaactcagag aaatcaaatt tctcttcaaa tctaagacaa 240

gccttacatt cttgatgact ctctcaaacac catcatgaag cttaaacctc acagacccaa 300

ctcaagtgat cttacaggac ttgttgatcc caagtaggat tgaaccacca acttggtcat 360

ca 362

<110> 20078
<111> 377
<112> DNA
<113> Glycine max

<123> unsure at all n locations

<400> 20078

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tgaagaacgc aaagtcttag tgcattgaaa agatatcaag gaaaggtgga atgtgtatct 180

ccacaactta tgaatgatg gatatggata tgaactctagc agtctagaca caagagaaga 240

ggaccygaac tataagtact atcgtcggat tcagaaacag gaagtaaagg aagcgttgaa 300

tagaatgagt aatgttaagg cggcggggcc agacaacata cctattgaag tctggaaaac 360

tctaggagat agacgtc 377

<210> 20079
 <211> 412
 <212> DNA
 <213> Glycine max

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 gagatgctgt ccccaaatagg gtcaccaatt gatattcttt cttgcataaa ggtaaaatgg 240
 tagttctctc acctttgtct ccaagtgagg tttgtgagga tcaaataaaa atgagattga 300
 aaagagaaaa agaaaagata ttcaaagtaa gaaaaagtc tttgagagag aataaccaca 360
 aagaagagaa aacataagag tgaaccaat tagttataaa gagagtttgt ta 412

<210> 20080
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 20080
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 attagatcga g 251

<210> 20081
 <211> 249
 <212> DNA
 <213> Glycine max

<400> 20081
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gtgctcaata acgagcgtct cgagagatta cgcgcgtgaa tccgacgtcc gtgtgaaagg 180
tatgaccatc tgggtcgttc gagagcttcc gttggggcaaa atcaagcggc ccgatttatt 240
atacacctg 249

<32> unsure at all 11 locations
<40> 20082

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gaacgagctc atttcttctt ctatttctt tagtagcata cacctttggt tggttctctaa 120
cctctctatg caacttcttt aaaaactcta accttgatcc ccttctctta tgtataaaag 180
aagtgtcaag tgggagggga attaggtctt aggggtgtag aggattgaac ccatagataa 240
cctcaaaagg ggattgcttg gttgttctat gaatccccct gtngtaggaa aattctacat 300
aaggaagata ctaatctctaa gacttatggg tctcttctag aaaagcctt aaaagggtgg 360
atagagaccc attcactacc tttgtttgcc catcaattta tggatgacaa gtggttag 417